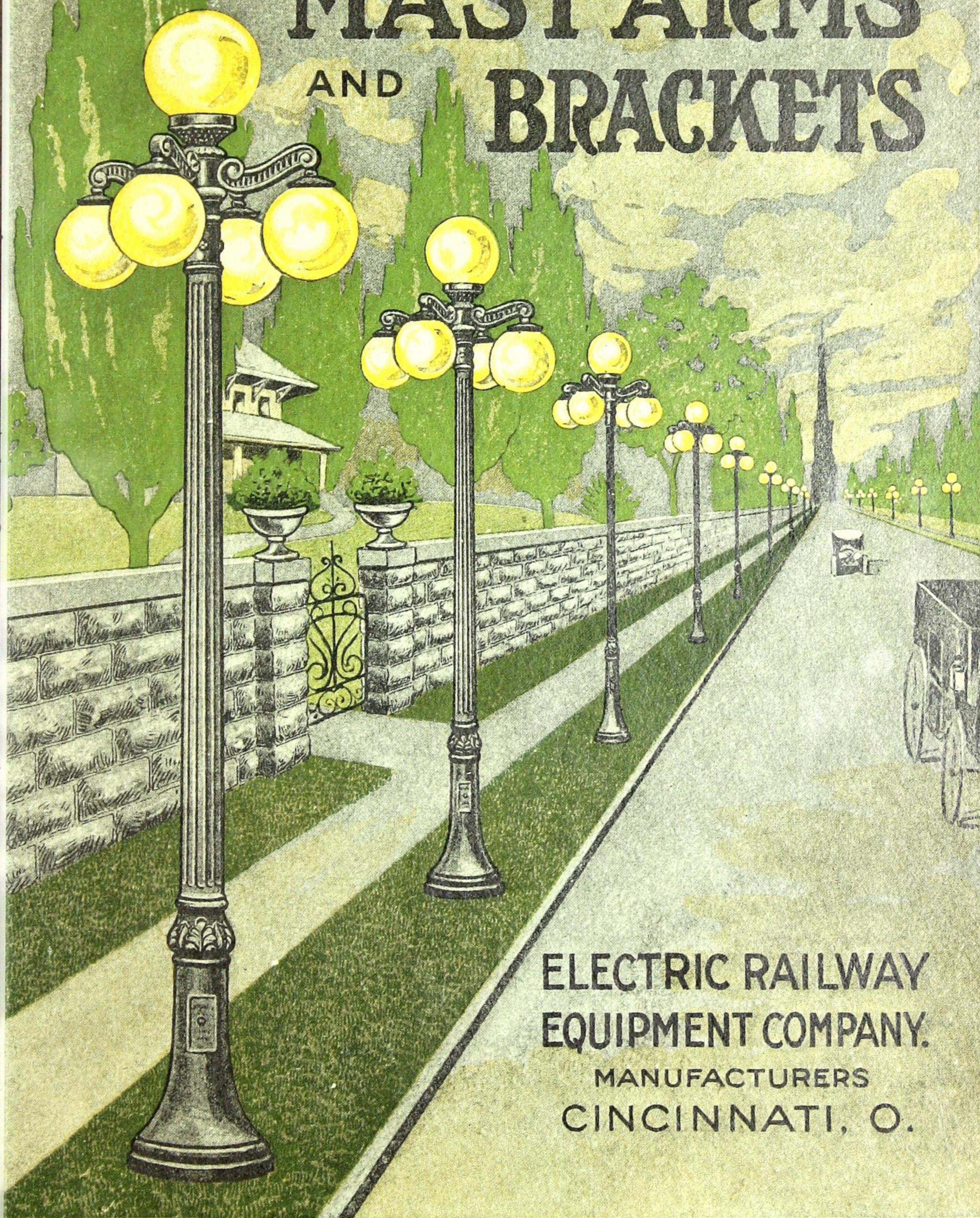


621,32

AUG 25 1914

ORNAMENTAL STREET LAMP POSTS MAST ARMS AND BRACKETS



ELECTRIC RAILWAY
EQUIPMENT COMPANY.
MANUFACTURERS
CINCINNATI, O.

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CCA

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CCA

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CCA

FOURTH EDITION

CATALOGUE "D"

ILLUSTRATING

One, Three and Five-Light
Ornamental Lamp Standards

Combination Railway and Lighting Poles
Lighting Fixtures arranged for Mazda
Lamps or Brackets for Supporting
Ornamental Luminous Arc Lamps

Special Columns for Supporting
Ornamental Luminous Arc Lamps
Railway Poles with Ornamental
Crooks for Supporting Arc Lamps
Ornamental Brackets for Mazda
Lamps. Mast Arms.



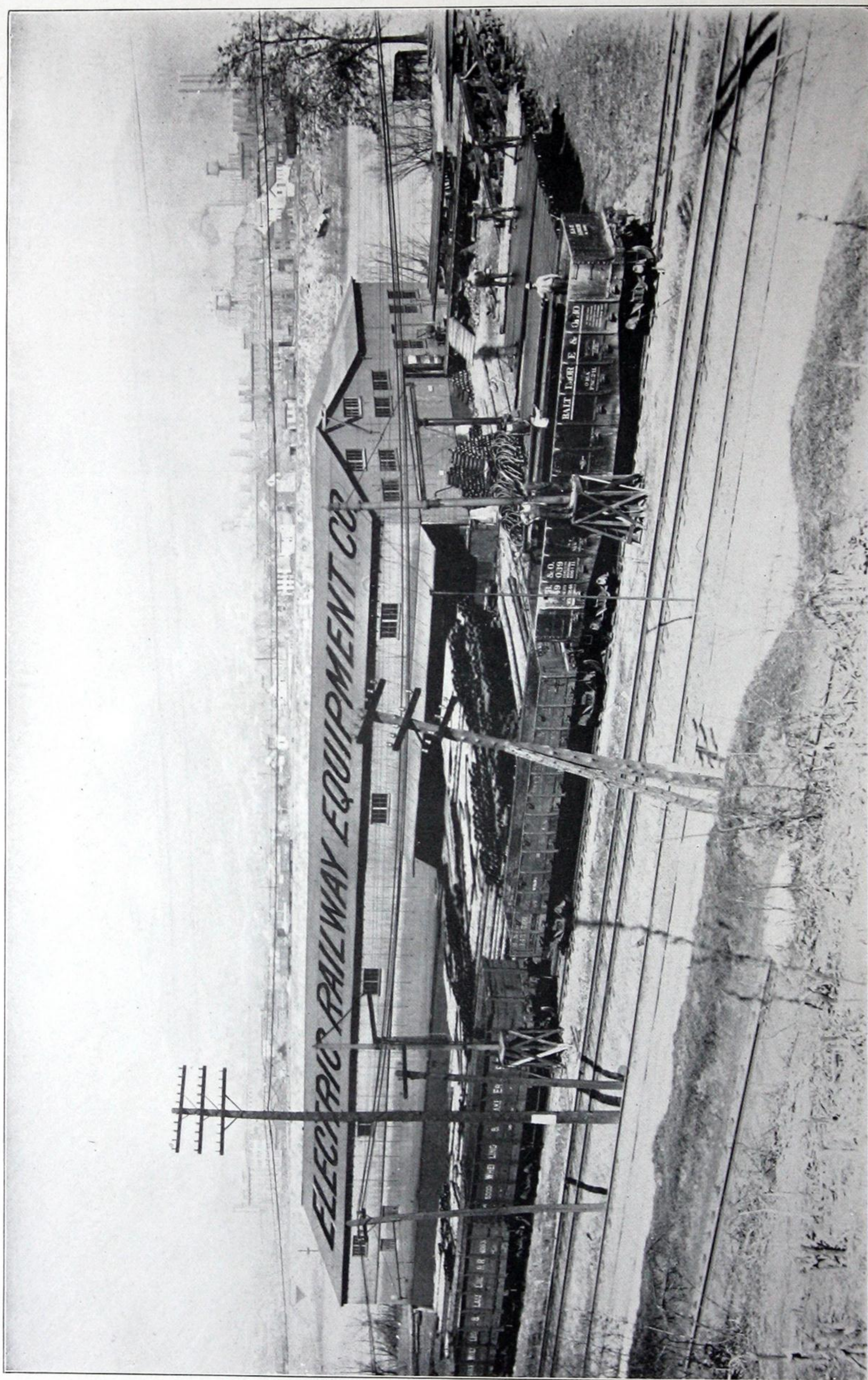
Electric Railway Equipment Co.

Designers and Manufacturers

General Office and Factory, Cincinnati, Ohio

New York Office, 30 Church Street

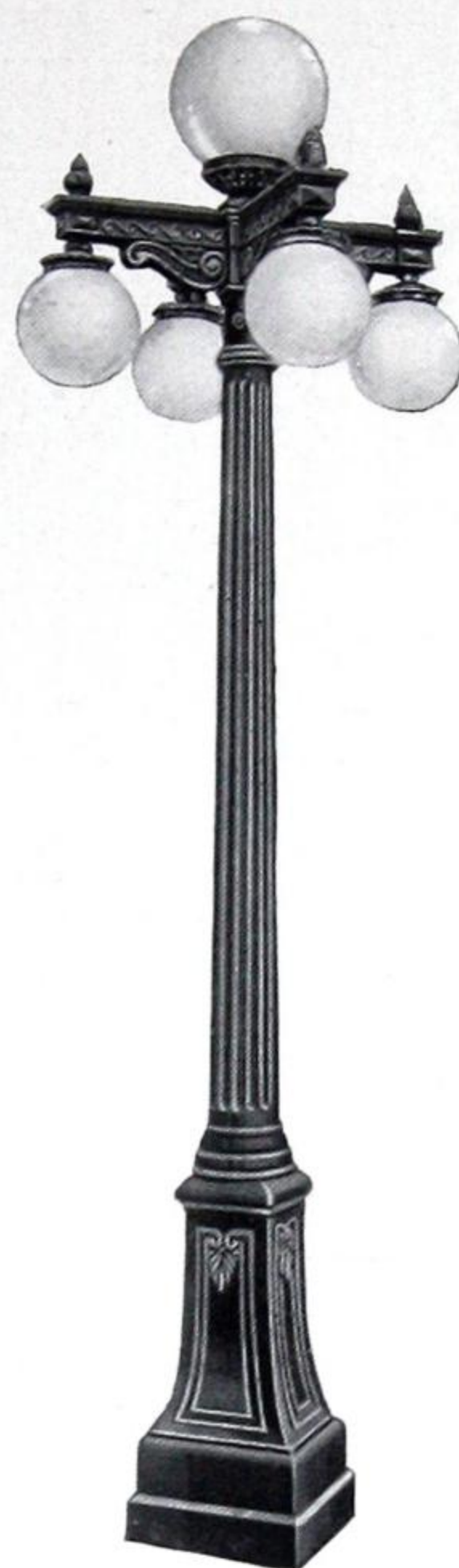
Pole Shops, W. Wheeling, Ohio



POLE SHOPS — WEST WHEELING, OHIO



Design 10118



Design 10104



Design 10128



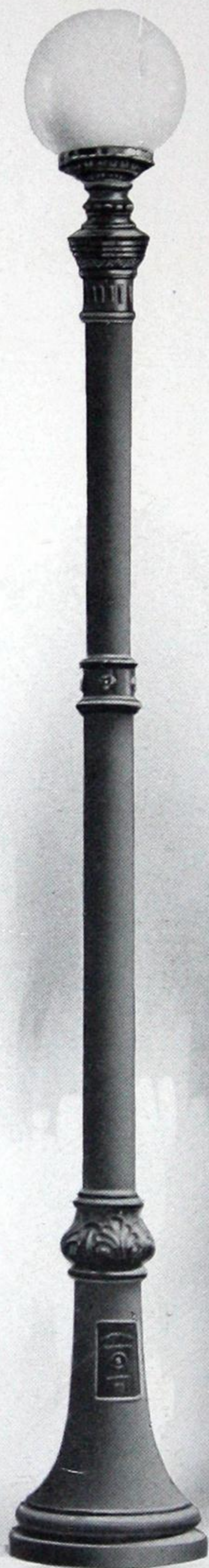
Design 10036
Four Arm



Design 10025

Ornamental lamp standards and combination railway and light poles.

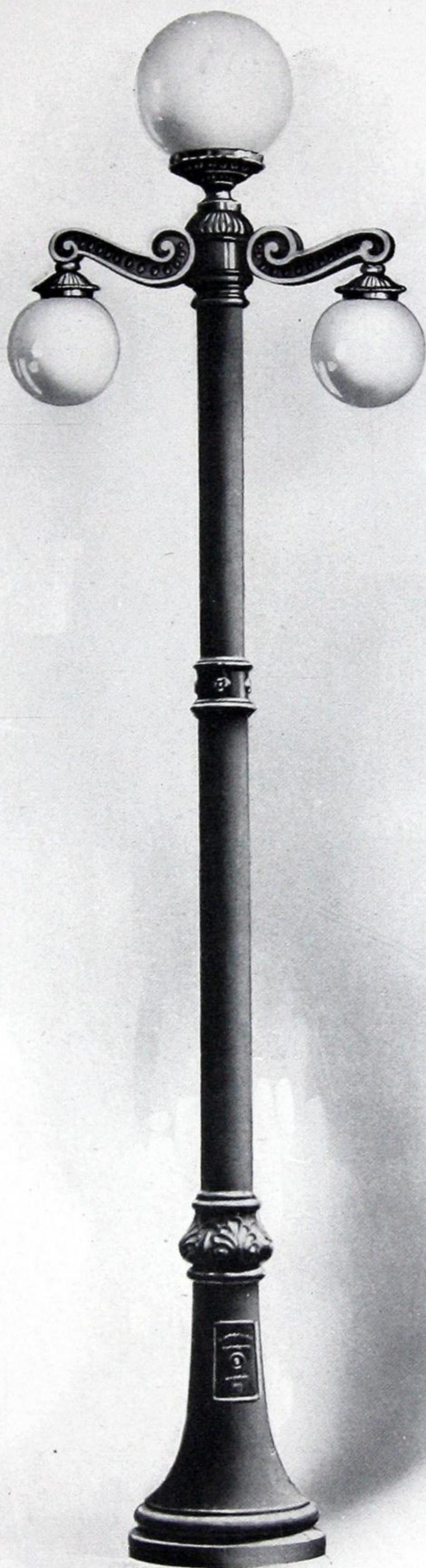
10 90-B4932 TCF



Design 10006
 Height to bottom of globe, 12'.
 Diameter of globe, 16"; fitter, 8".

Column, 4½" and 4" pipe.

Code Word — BLUEFAN.
 Diameter of base, 19".
 Base, cast iron.



Design 10045

Height to bottom of top globe, 12'.
Diameter of top globe, 16"; fitter, 8".
Base, cast iron.

Code Word — BLUEPAT

Diameter of lower globes, 12"; fitters, 6".
Diameter of base, 19".
Column, 4½" and 4" pipe.

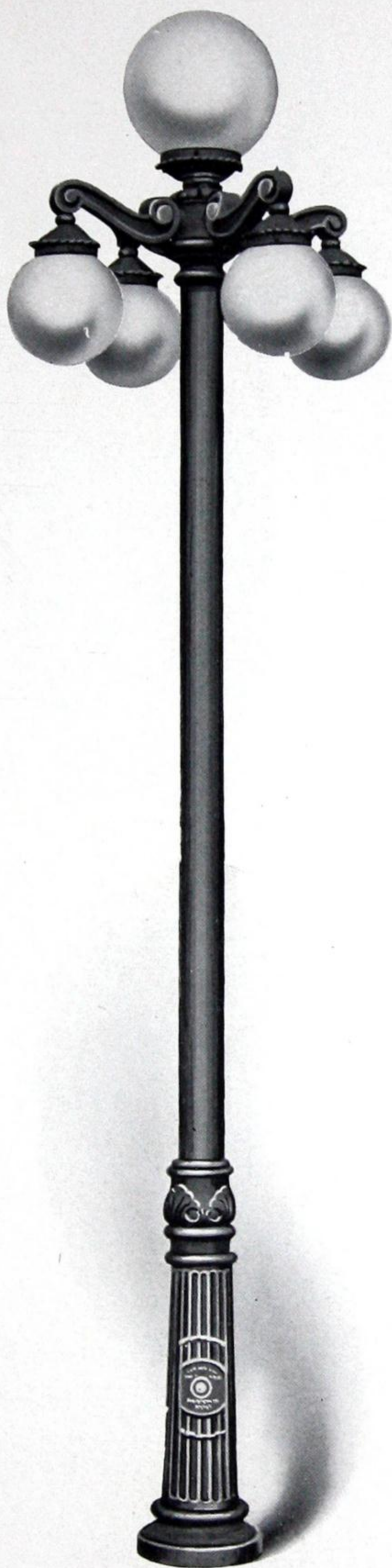


Design 10000

Height to bottom of top globe, 12'.
 Diameter of top globe, 16"; fitter, 8".
 Base, cast iron.

Code Word — BLUEAX.

Diameter of lower globes, 12"; fitters, 6".
 Diameter of base, 19".
 Column, 4½" and 4" pipe.



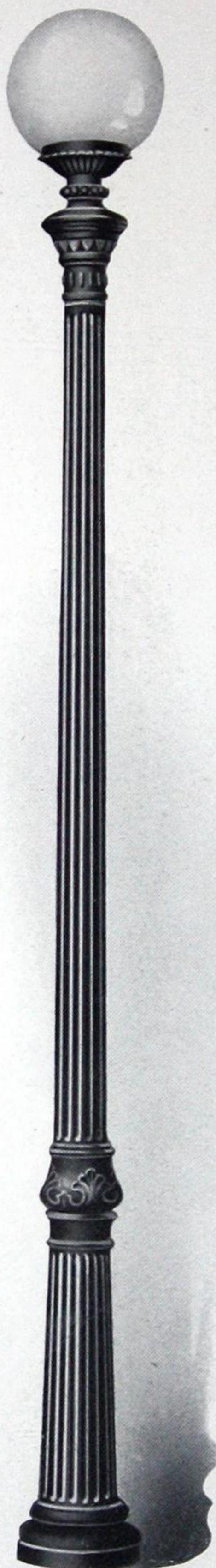
Design 10161

Height to bottom of top globe, 12'.
 Diameter of top globe, 16"; fitter, 8".

Base can be furnished with outside flange or 30" ground extension.

Code Word — BLUETIB

Diameter of lower globes, 12"; fitters, 6".
 Column, 4" standard weight pipe.



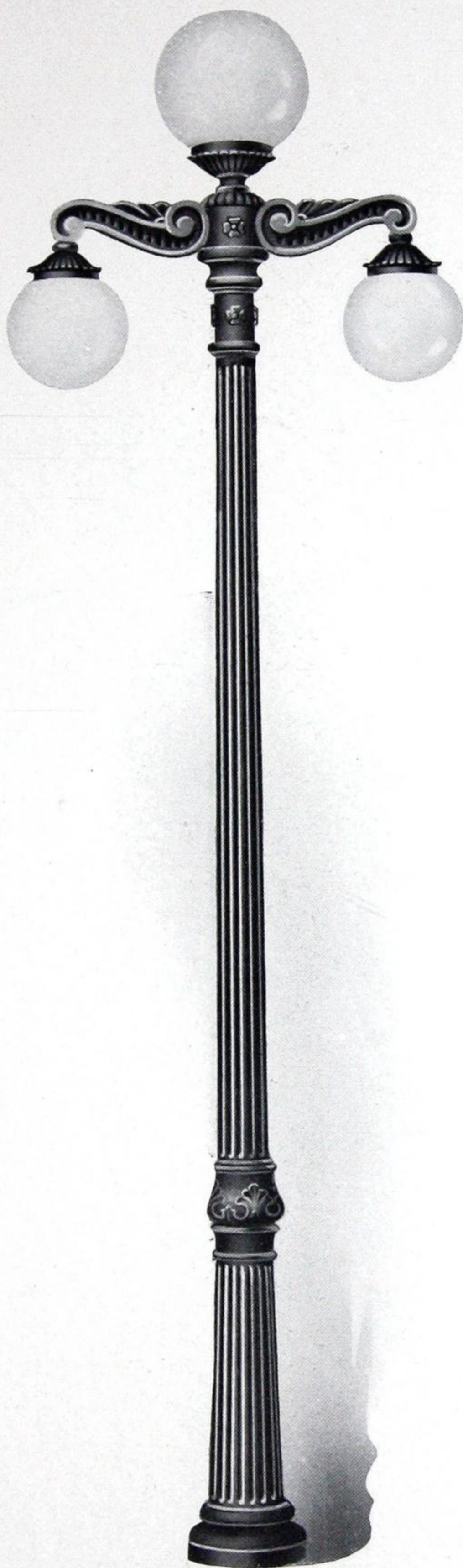
Design 10138

Height to bottom of top globe, 12'.

Base can be furnished with outside flange or 30" ground extension.

Code Word — BLUENUM

Diameter of globe, 16"; fitter, 8".



Design 10137

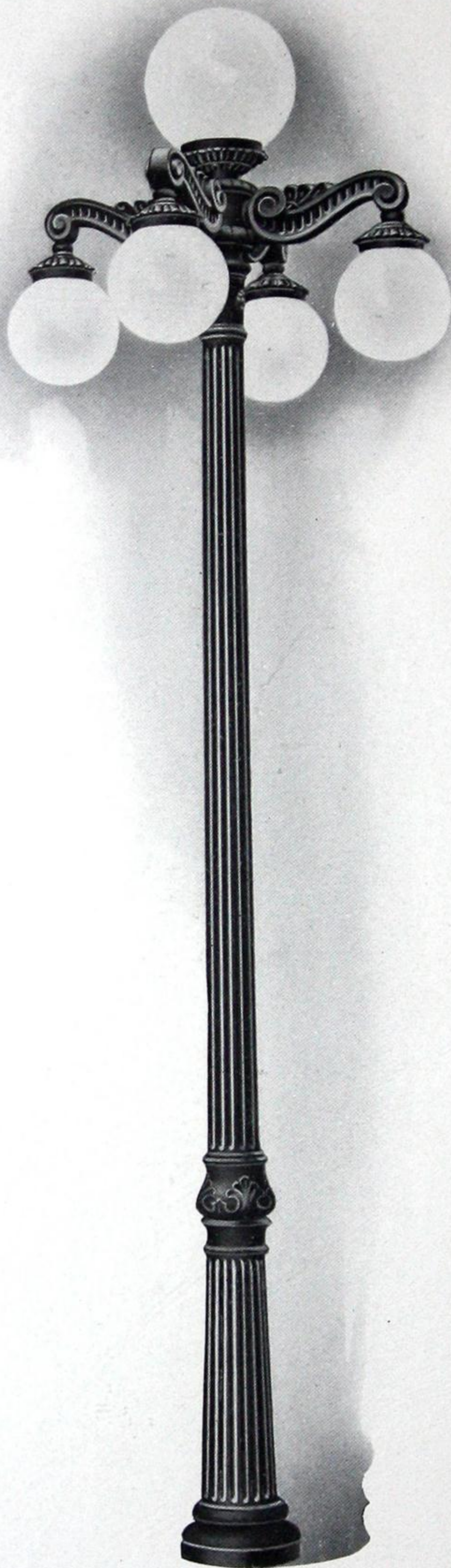
Code Word — BLUEWOD

Height to bottom of top globe, 12' 6".

Diameter of side globes, 12"; fitters, 6".

Diameter of top globe, 16"; fitter, 8".

Base can be furnished with outside flange or 30" ground extension.



Design 10131

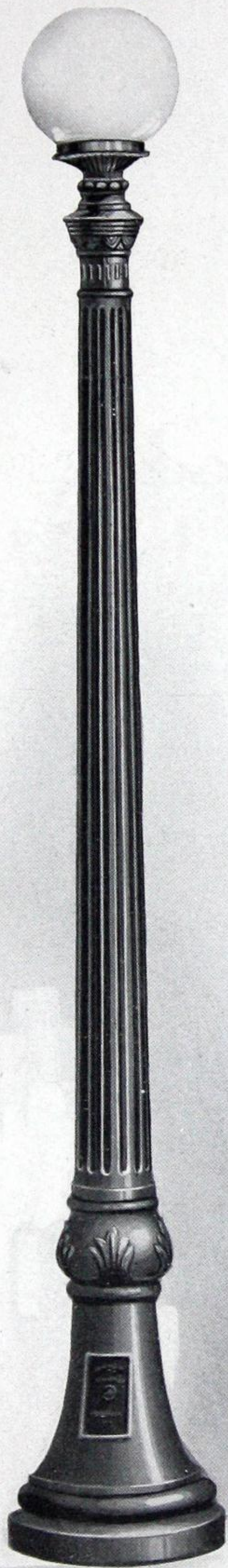
Height to bottom of top globe, 12' 6".

Diameter of top globe, 16"; fitter, 8".

Base can be furnished with outside flange or 30" ground extension.

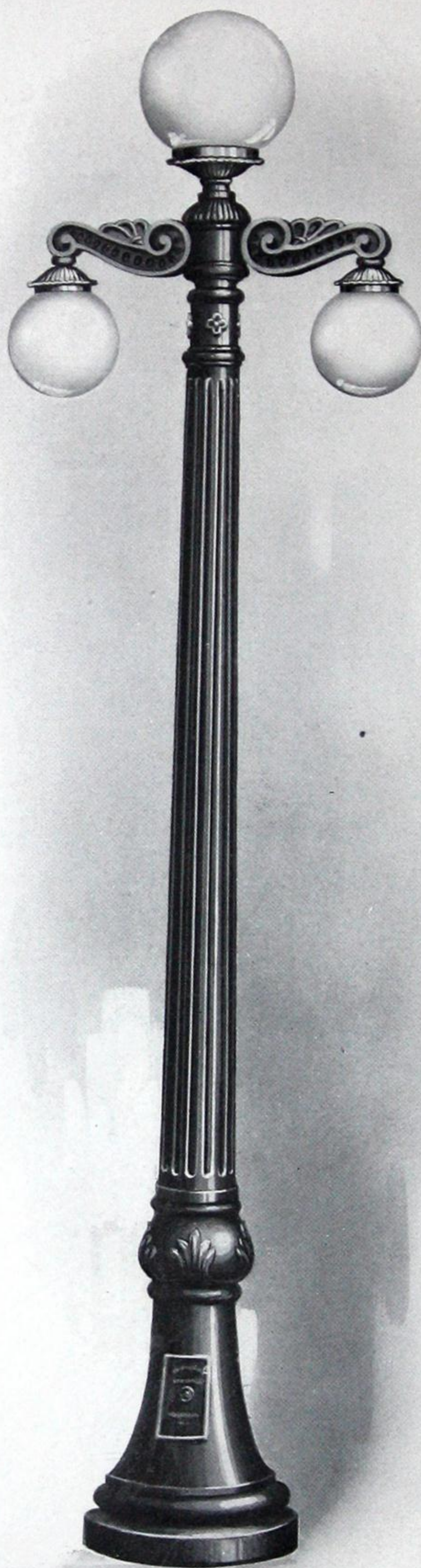
Code Word — BLUEMIT

Diameter of side globes, 12"; fitters, 6".



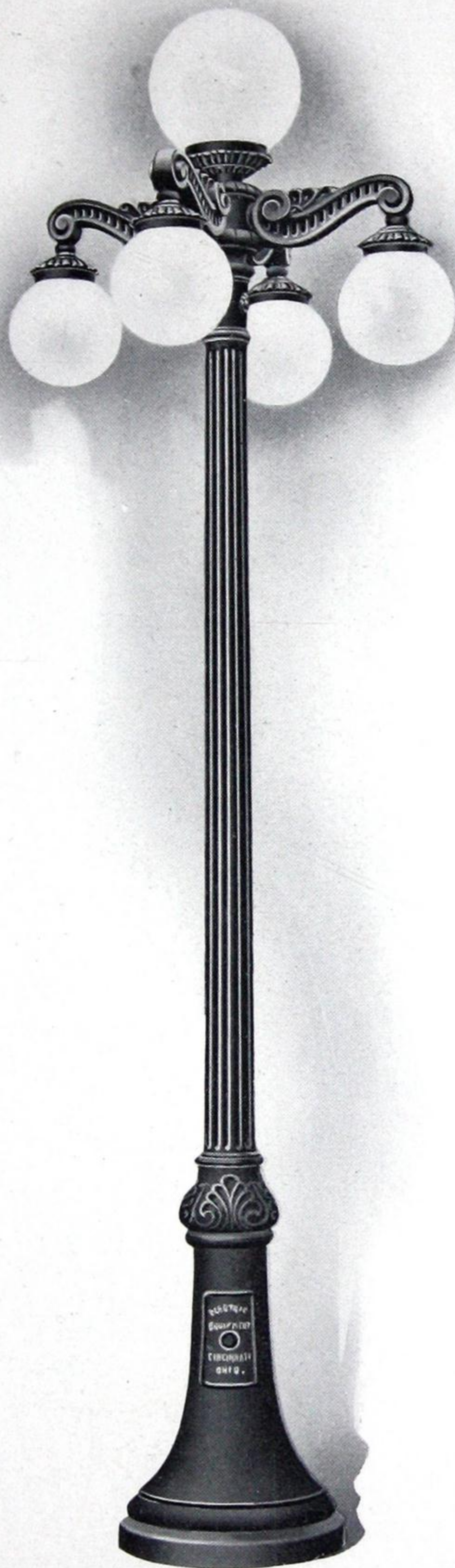
Design 10074
Height to bottom of globe, 12'.

Code Word — BLUEWAD
Diameter of base, 19".
Diameter of globe, 16"; fitter, 8".



Design 10037
 Height to bottom of top globe, 12'.
 Diameter of top globe, 16"; fitter, 8".

Code Word — BLUEMIR
 Diameter of lower globes, 12"; fitters, 6".
 Diameter of base, 19".

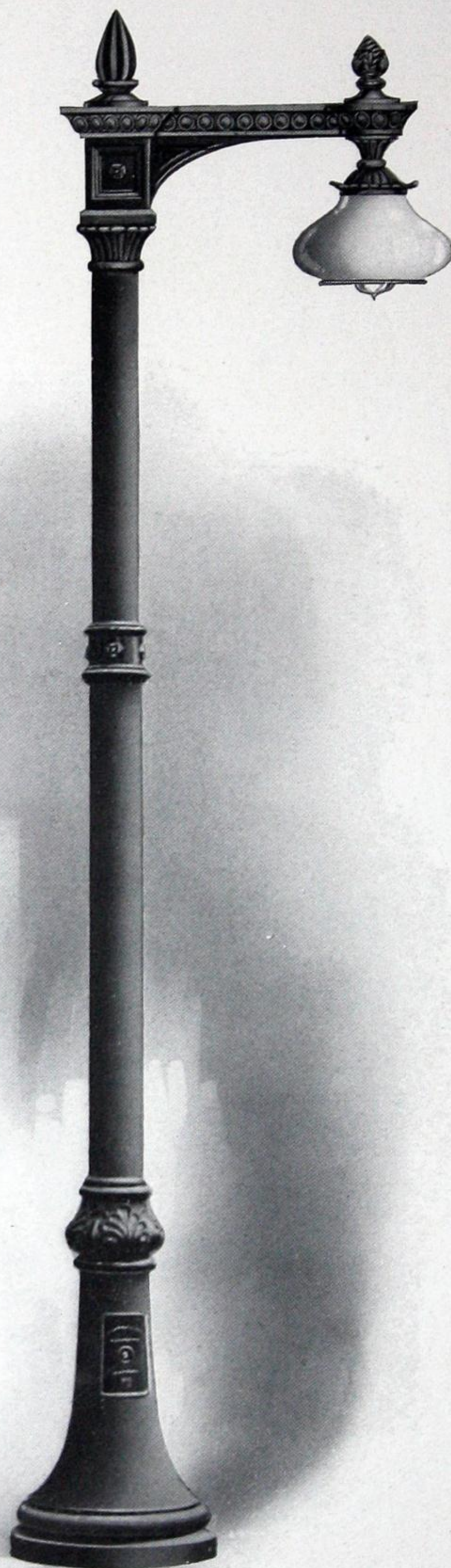


Design 10012

Height to bottom of top globe, 12'.
 Diameter of top globe, 16"; fitter, 8".

Code Word — BLUEGEM

Diameter of lower globes, 12"; fitters, 6".
 Diameter of base, 19".



Design 10039

Code Word — BLUEMUR

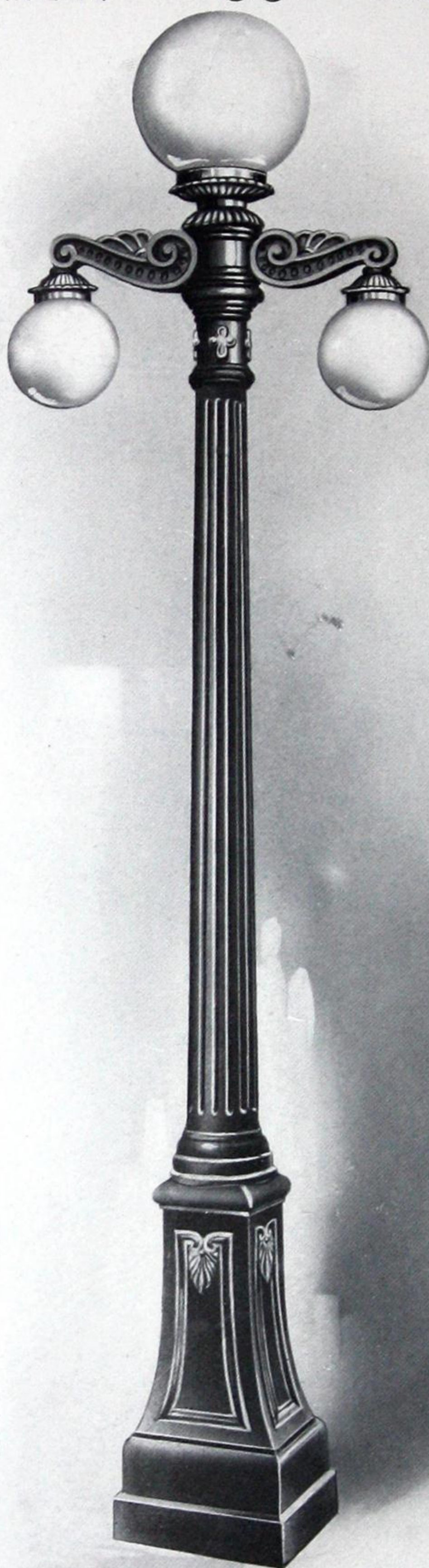
Showing post equipped with Holophane Reflector.

Height to bottom of globe, 14'.

Diameter of base, 19".

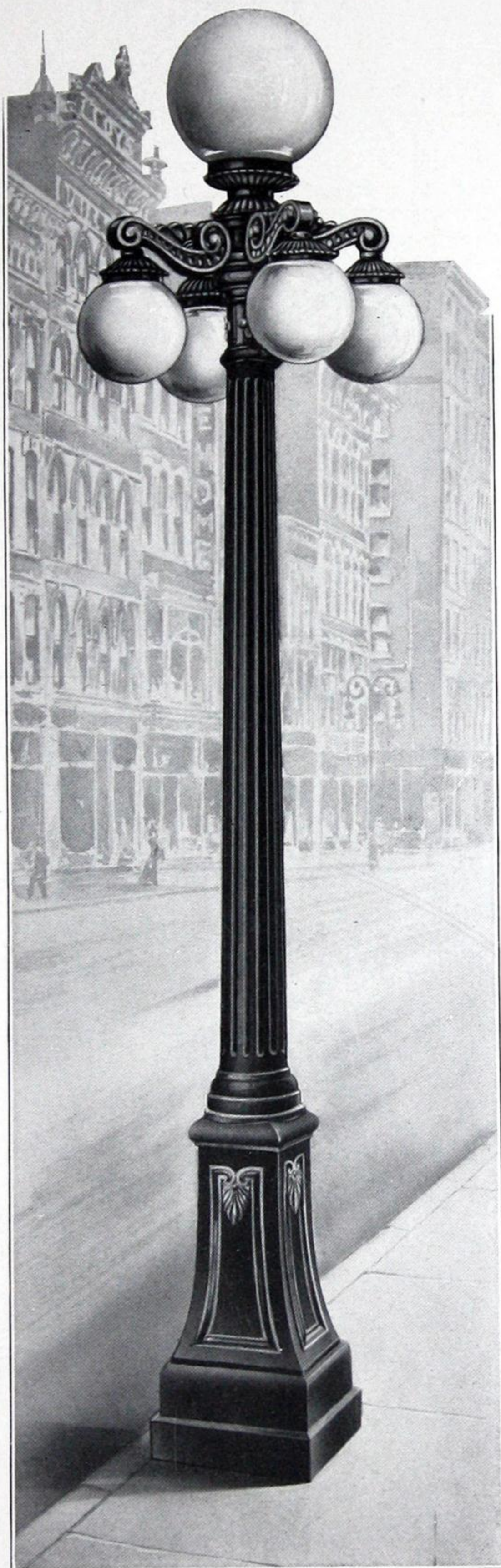


Design 10040 Code Word — BLUENAT
 Showing post equipped with Holophane Reflectors.
 Height to bottom of center globe, 14'. Diameter of base, 19".



Design 10038
 Height to bottom of top globe, 12'.
 Diameter of top globe, 16"; fitter, 8".

Code Word — BLUEMOT
 Diameter of side globes, 12"; fitters, 6".
 Base, 17" square.

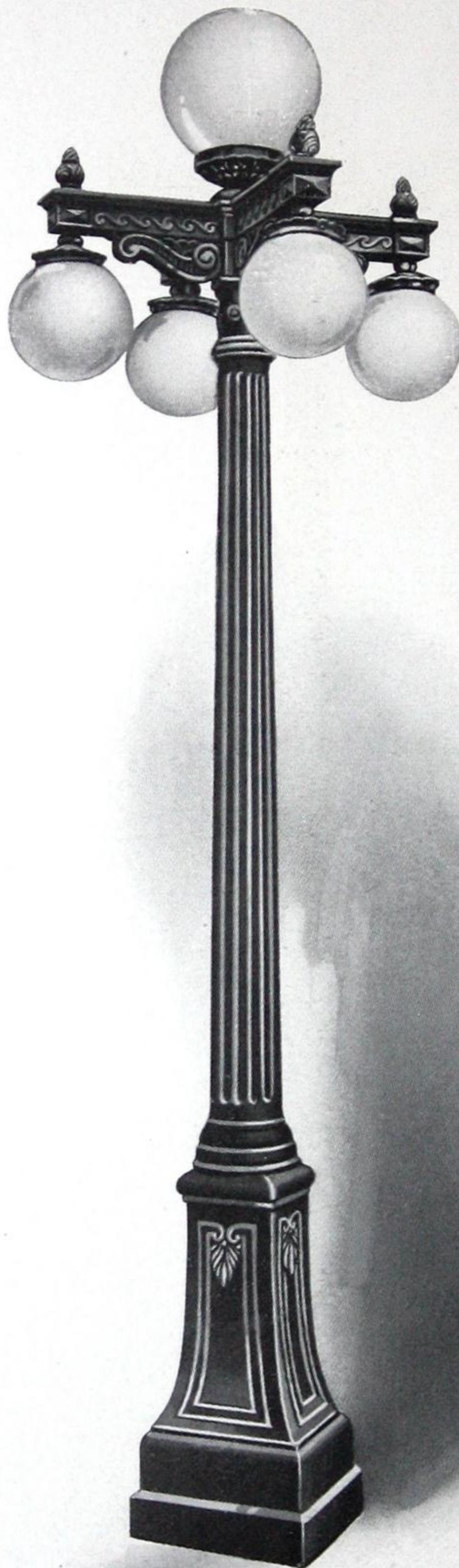


Design 10019

Height to bottom of top globe, 12'.
Diameter of top globe, 16"; fitter, 8".

Code Word — BLUEHOB

Diameter of side globes, 12"; fitters, 6".
Base, 17" square.

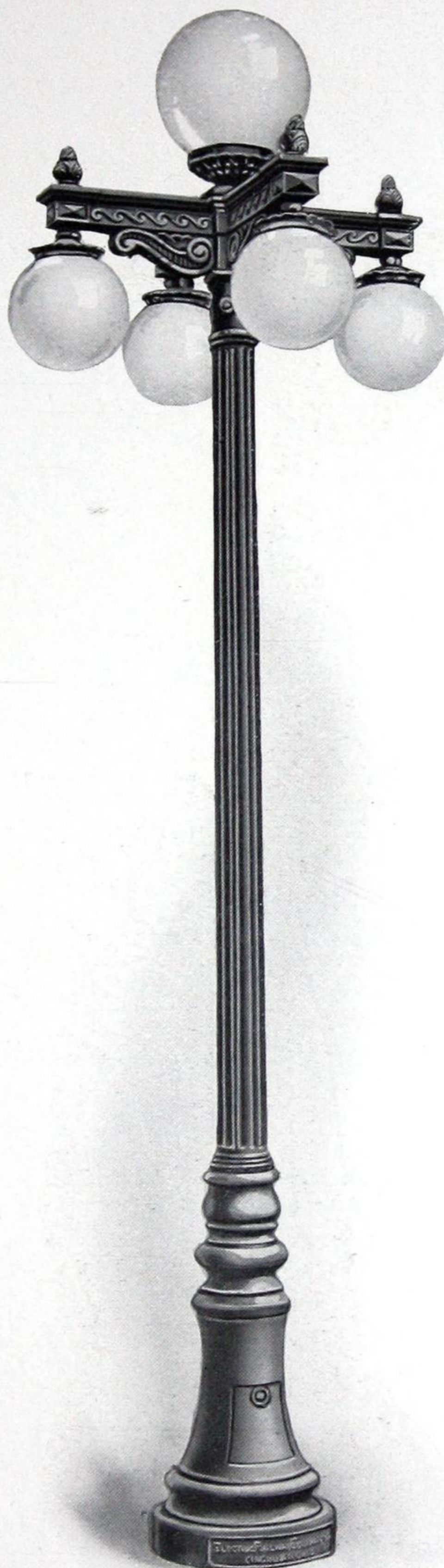


Design 10104

Height to bottom of top globe, 12'.
 Diameter of top globe, 16"; fitter, 8".

Code Word — BLUEFUN

Diameter of lower globes, 12"; fitters, 6".
 Base, 17" square.

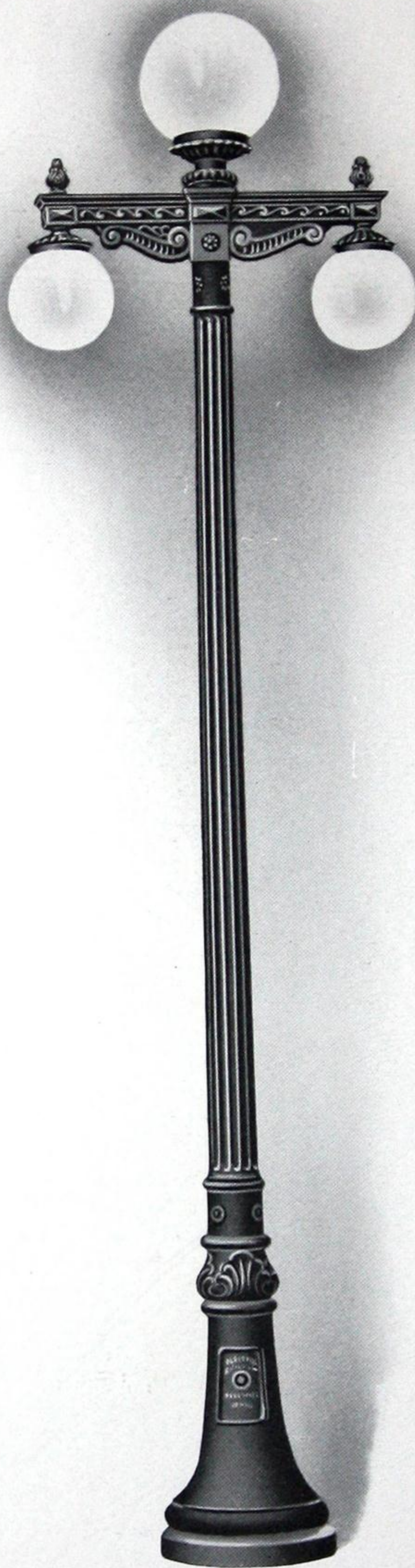


Design 10078

Height to bottom of top globe, 12' 6".
 Diameter of top globe, 16"; fitter, 8"

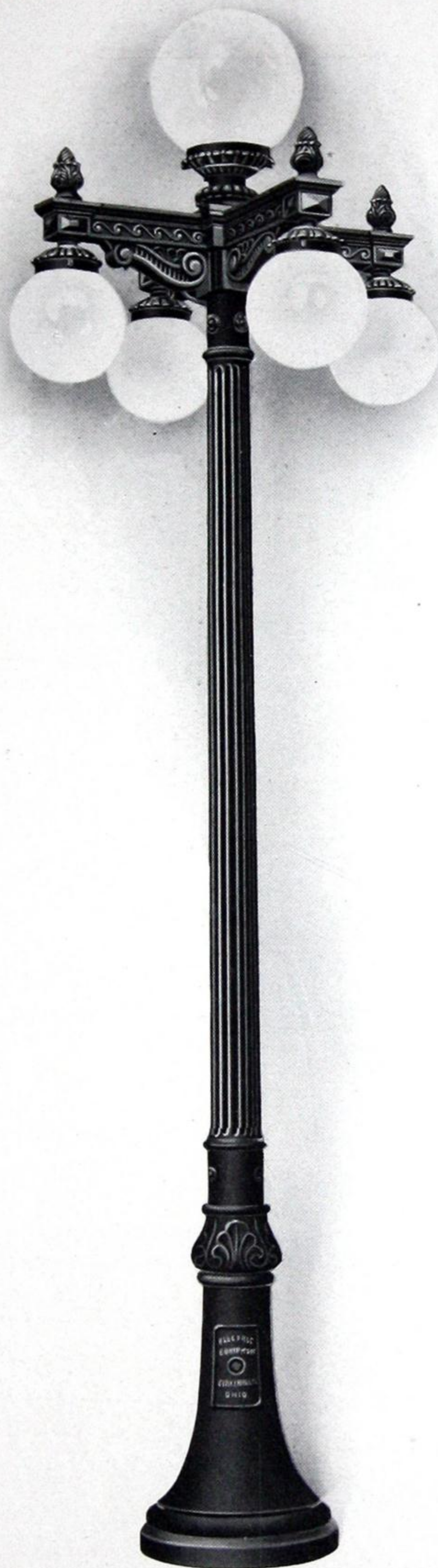
Code Word — BLUEWUN

Diameter of lower globes, 12"; fitters, 6".
 Diameter of base, 19".



Design 10133
 Height to bottom of top globe, 12' 6".
 Diameter of top globe, 16"; fitter, 8"

Code Word — BLUEMUD
 Diameter of lower globes, 12"; fitters, 6".
 Diameter of base, 19".

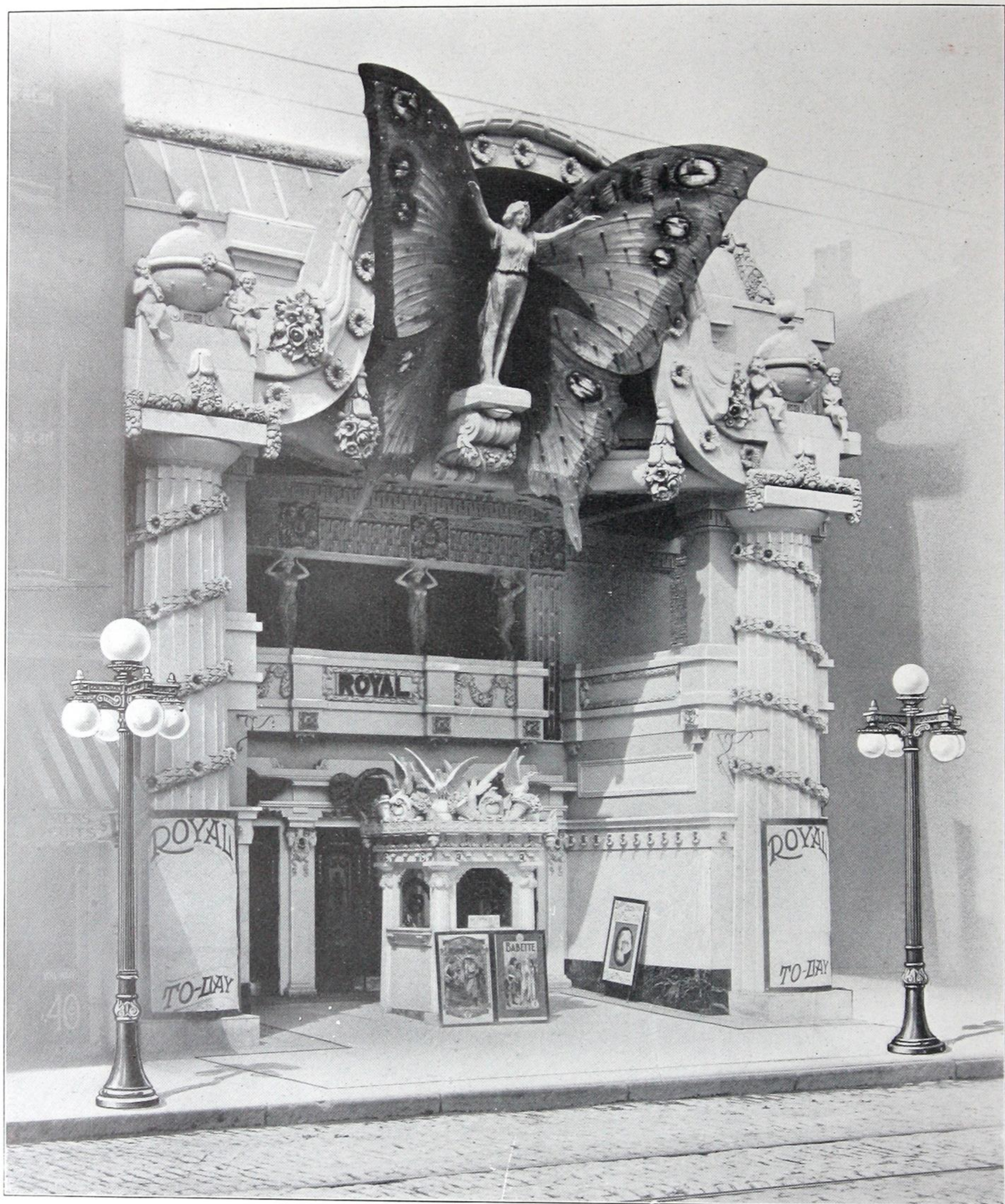


Design 10075

Height to bottom of top globe, 12' 6".
Diameter of top globe, 16"; fitter, 8"

Code Word — BLUEWET

Diameter of lower globes, 12"; fitters, 6".
Diameter of base, 19".



Day View — Lamp Standards, Design 10075, installed in front of moving picture theater,
Cincinnati, Ohio.



Night View — Lamp Standards, Design 10012, installed in front of moving picture theater, Cincinnati, Ohio.



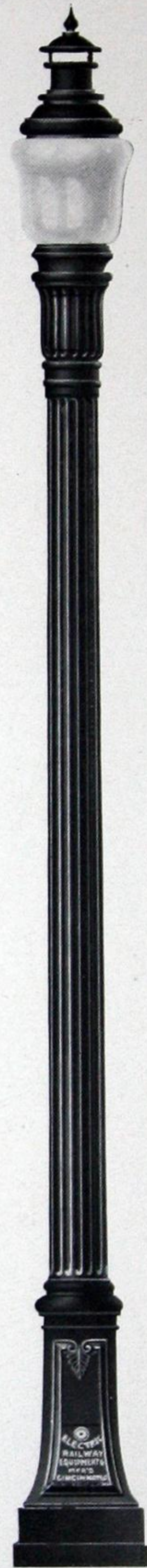
Design 10118 Code Word — BLUEJUT

Diameter of base, 20½"

Ornamental columns for supporting G. E. "White Way" luminous arc lamps.

Height, ground line to center of arc, 14' 6".

Columns can also be furnished for residential or parkway lamps.



Design 10119 Code Word — BLUEKAR

Base, 17" square.



Design 10123

Code Word — BLUEMUT

Ornamental columns for supporting G. E. "White Way" luminous arc lamps.
 Height, ground line to center of arc, 14' 6".

Diameter of base, 20½".

Columns can also be furnished for residential or parkway lamps.



DESCRIPTION OF Patented Wire-Lock Swedge Joint and Tubular Poles

WE wish to call attention to our Iron and Steel Tubular Poles for electric railway, electric lighting, also combination lighting and trolley poles, assembled with our well-known PATENTED WIRE-LOCK SWEDGE JOINTS.

It is impossible for poles made up in this manner to telescope at the joints, either by overloading same or by the drop test.

Also note that poles made up with this joint caliper the same diameter over the entire joint, which is as cylindrical as the tube of which the pole is composed, and the fact that as the metal of the outer tube is laid down on the inner tube it is thickened the whole length of the joint and not stretched out and thinned, as in the ordinary manner of swedging under the hammer. The edge of the outer tube at all joints is CHAMFERED so that water can not rust and corrode the pole at this point.

For weights, section lengths and sizes of tubular poles, also greatest safe load same will withstand, and deflection under given loads, see Tubular Pole and Pole Fitting Catalogue No. 15.

Wrought-Iron or Steel Pipe Used in Manufacture of Poles

Standard wrought iron or steel pipe is known to the trade by its nominal inside diameter, which, however, is not its actual inside diameter. A pipe known as five-inch pipe will measure 5.045 inches diameter inside, while an extra strong pipe will measure 4.813 inches diameter inside; the outside diameter of both styles being the same, 5.563 inches.

For further information, see Pole Catalogue No. 15.

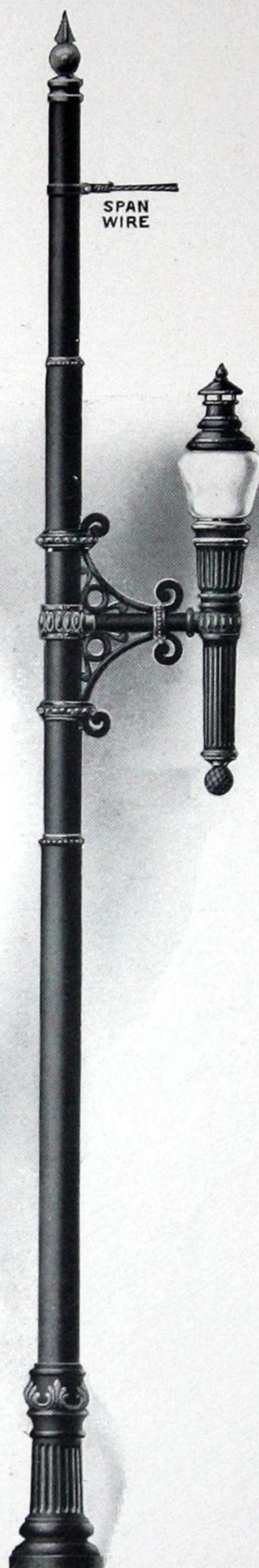
The section combinations of pipe most frequently used in the manufacture of two-section poles are 6 x 5 and 7 x 6 inches for side or line poles, and 8 x 7 for corner or strain poles. For three-section poles, 6 x 5 x 4 or 7 x 6 x 5 inches for side or line poles, and 8 x 7 x 6 for corner or strain poles.

The standard lengths of poles used in the United States are 28 feet and 30 feet. The standard joint insertion is 18 inches.



Patented Wire-Lock Swedge Joint

which we use in the manufacture of
all our iron and steel tubular poles



Design 10127

Code Word — BLUELOP

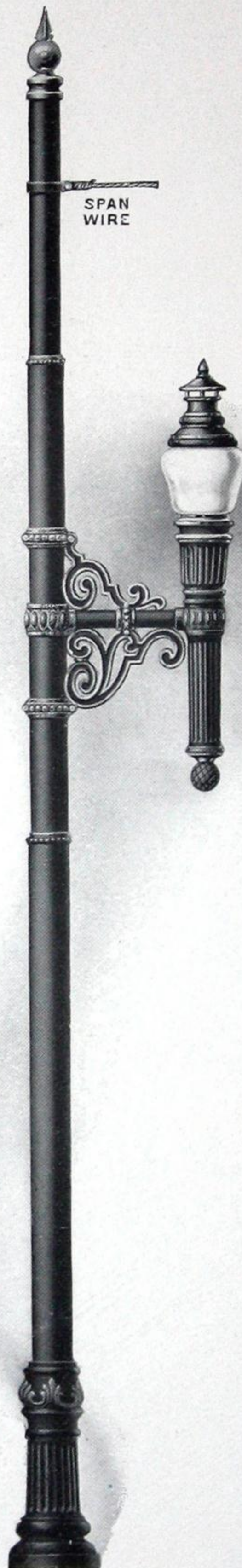
Railway pole equipped with ornamental base and bracket for supporting ornamental luminous arc lamp. Standard pole, 30' over all; 24' above ground line and 6' below ground line. Size of pole, 7", 6" and 5"; 18" swaged joints. Brackets and bases, however, can be furnished to fit any size railway pole. See page 35 for special top to be used with overhead wiring.



Design 10127-A

Code Word — BLUELOR

Railway pole equipped with ornamental base and bracket for supporting ornamental luminous arc lamps. Standard pole, 30' over all; 24' above ground line and 6' below ground line. Size of pole, 7", 6" and 5"; 18" swedged joints. Brackets and bases, however, can be furnished to fit any size railway pole. See page 35 for special top to be used with overhead wiring.



Design 10128

Code Word — BLUELUS

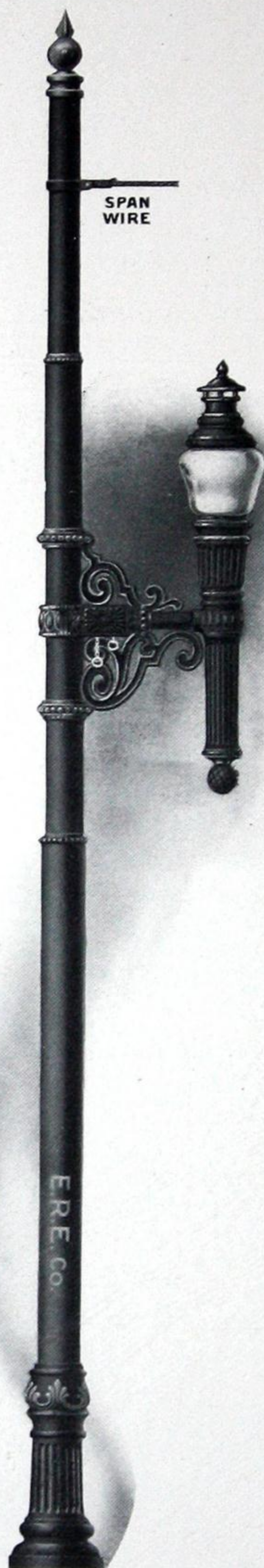
Railway pole equipped with ornamental base and bracket for supporting ornamental luminous arc lamp. Standard pole, 30' over all; 24' above ground line and 6' below ground line. Size of pole, 7", 6" and 5"; 18" swedged joints. Brackets and bases, however, can be furnished to fit any size railway pole. See page 35 for special top to be used with overhead wiring.



Design 10128-A

Code Word — BLUEMAD

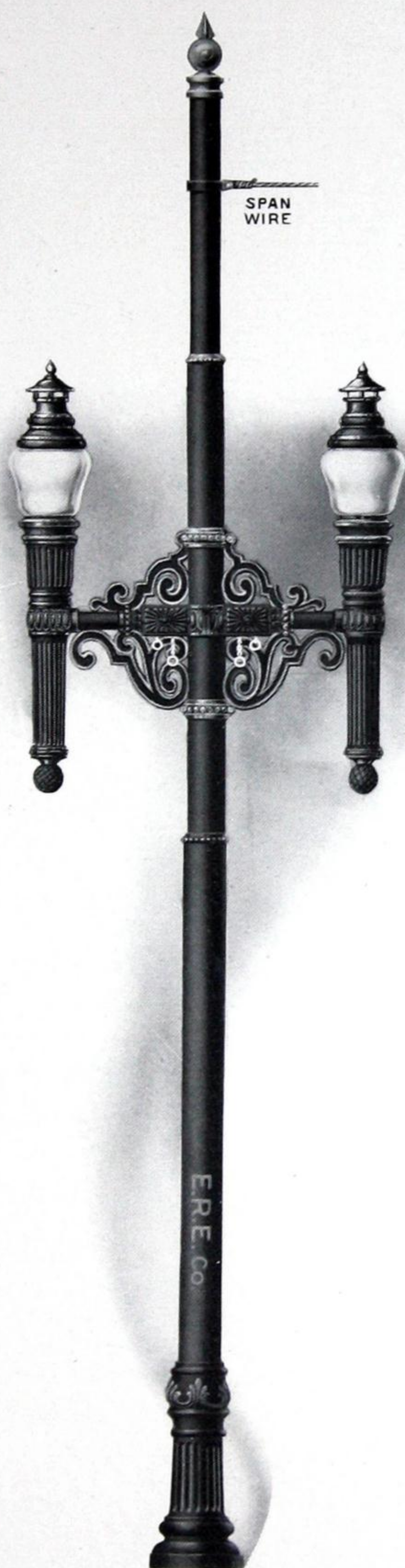
Railway pole equipped with ornamental base and bracket for supporting ornamental luminous arc lamps. Standard pole, 30' over all; 24' above ground line and 6' below ground line. Size of pole, 7", 6" and 5"; 18" swedged joints. Brackets and bases, however, can be furnished to fit any size railway pole. See page 35 for special top to be used with overhead wiring.



Design 10154

Code Word — BLUERUS

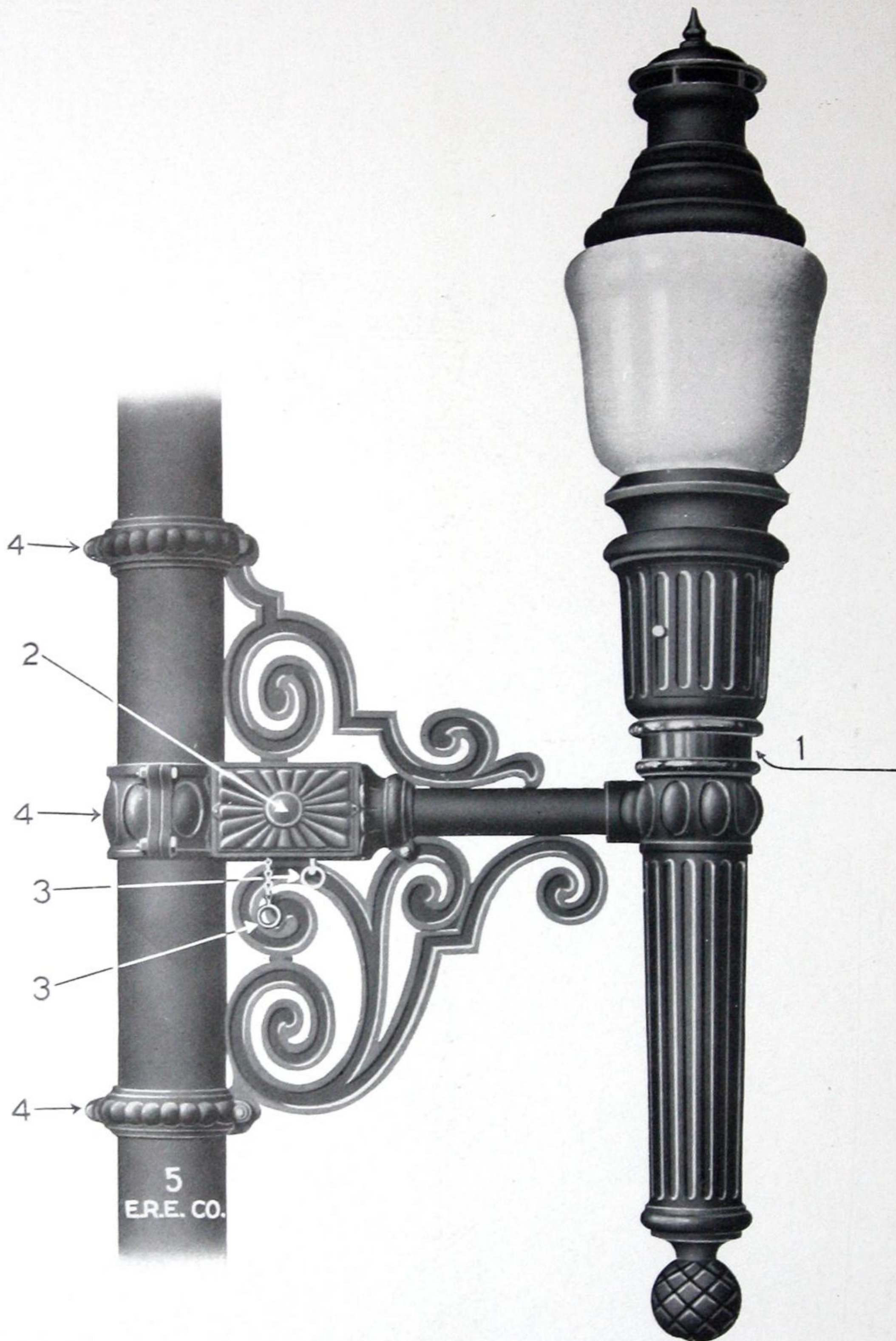
Railway pole equipped with ornamental base and bracket for supporting ornamental luminous arc lamp. Standard pole, 30' over all; 24' above ground line and 6' below ground line. Size of pole, 7", 6" and 5"; 18" swedged joints. Brackets and bases, however, can be furnished to fit any size railway pole. See page 35 for special top to be used with overhead wiring. See page 34 for large cut of bracket.



Design 10154-A

Code Word — BLUERUM

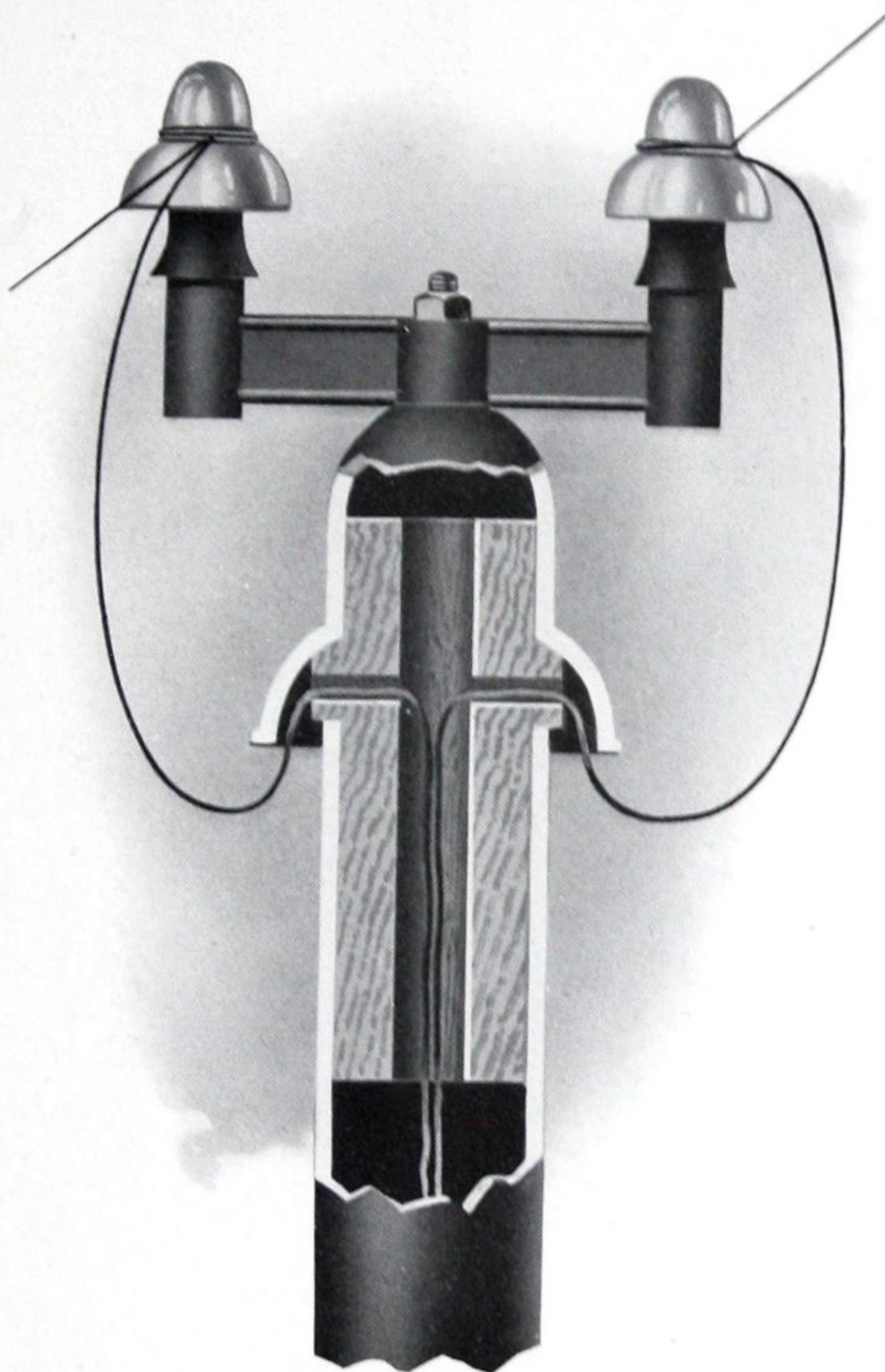
Railway pole equipped with ornamental base and bracket for supporting ornamental luminous arc lamps. Standard pole, 30' over all; 24' above ground line and 6' below ground line. Size of pole, 7", 6" and 5"; 18" swedged joints. Brackets and bases, however, can be furnished to fit any size railway pole. See page 35 for special top to be used with overhead wiring. See page 34 for large cut of bracket.



Detail View of Bracket Design No. 10154.

- No. 1 — Porcelain insulator, and all parts of lamp above this point, furnished by General Electric Co.
- No. 2 — Removable cover plate which allows positive cutout to be mounted in bracket.
- No. 3 — Rings at end of chain for operating positive cutout. Cutout operated from street level by using small rod having hooked end.
- No. 4 — Clamp collars are made in two parts and can be furnished to fit any size street railway pole.
- No. 5 — Street railway pole.

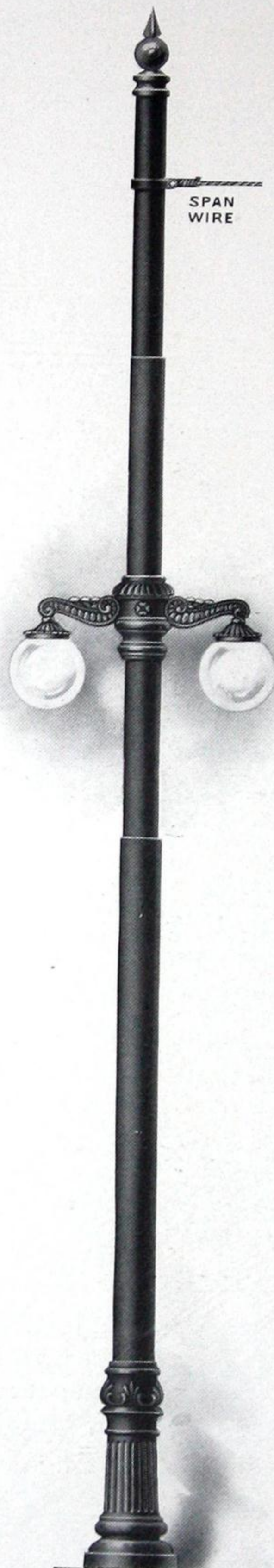
Adjustable feature of bracket permits lamp to remain vertical regardless of rake of pole.



Special Insulated Pole Top.

Detail view of special insulated pole top, showing how line wires are brought into pole. Pole top and break arm are thoroughly insulated from tubular pole by treated wooden plug. This arrangement is recommended where wires are not run underground; can be used with any type combination railway and lighting poles shown in this catalogue.

- Design 10192** — Code Word, BLUEFIND — for pole with 3" top.
 " 10192-A — Code Word, BLUEFIL — for pole with 4" top.
 " 10192-B — Code Word, BLUEFIM — for pole with 5" top.
 " 10192-C — Code Word, BLUEFIP — for pole with 6" top.
 " 10192-D — Code Word, BLUEFIZ — for pole with 7" top.



Design 10046

Combination railway and lighting pole.
 Standard pole, 30' over all; 24' above ground line and 6' below ground line.
 Size of pole, 7", 6" and 5"; 18" swedged joints.
 Fixtures and bases, however, can be furnished to fit any size railway pole.
 See detail of lighting fixture, page 38.

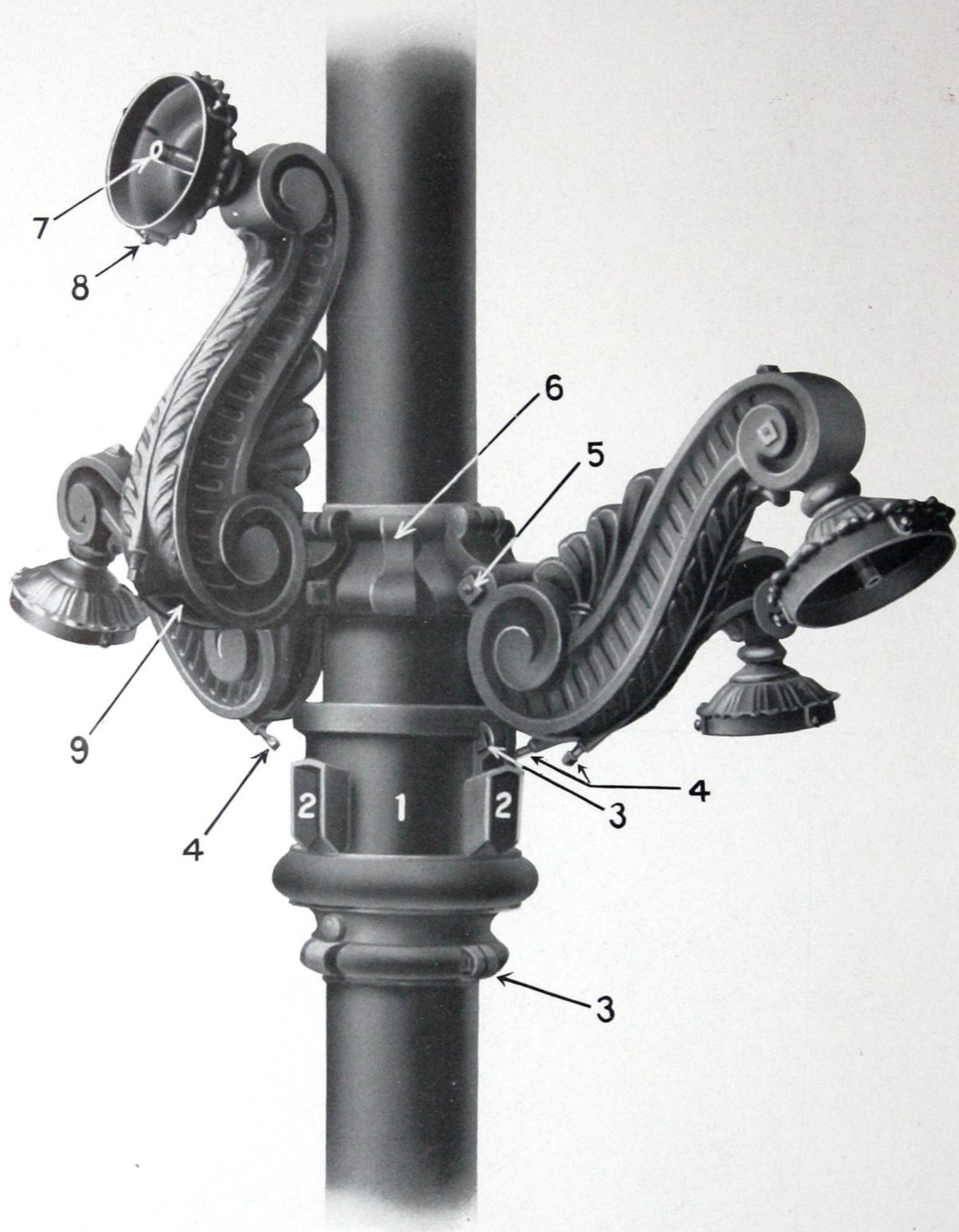
Code Word — BLUEPEN



Design 10015

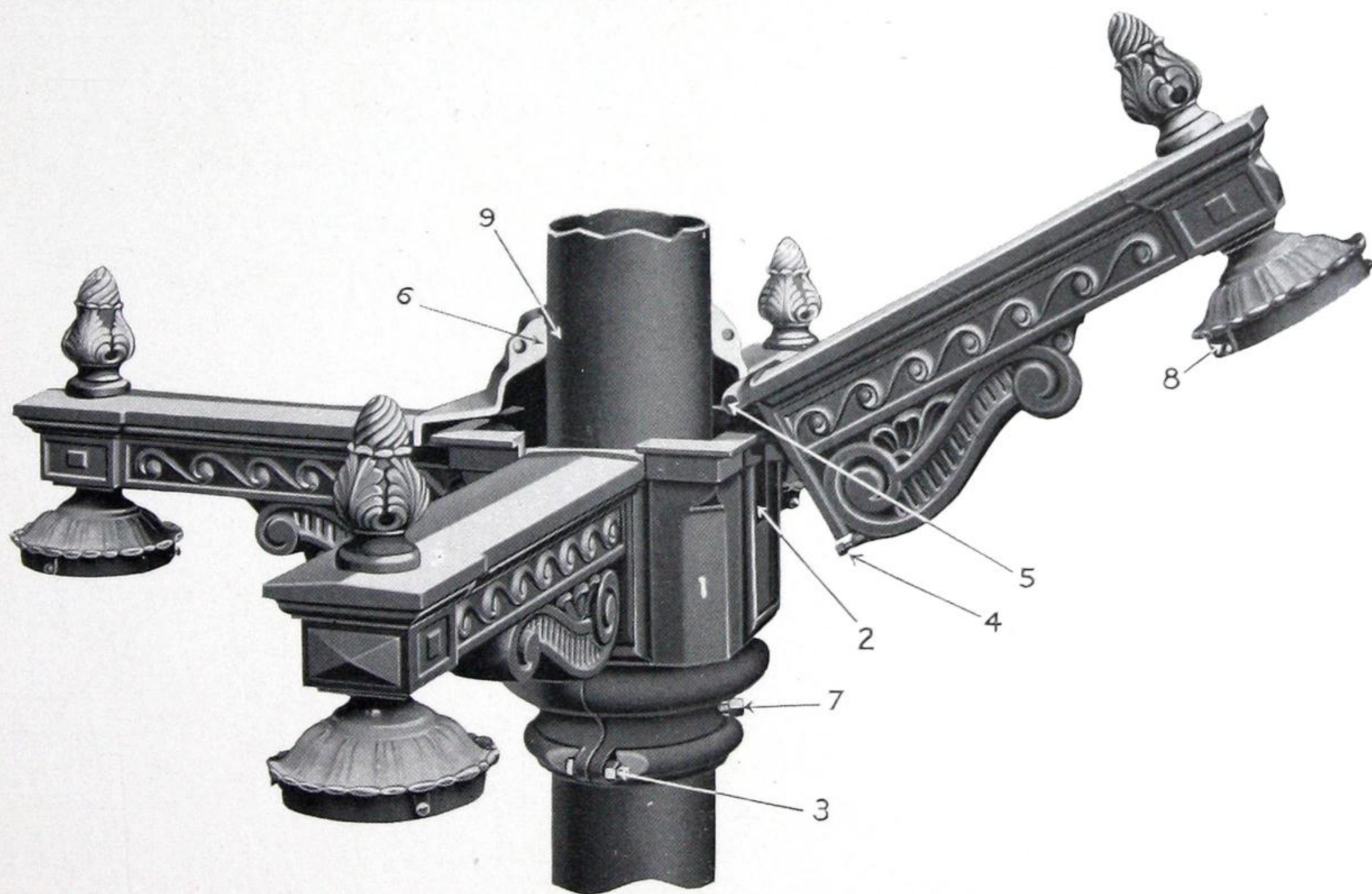
Code Word — BLUEGUM

Combination railway and lighting pole.
 Standard pole, 30' over all; 24' above ground line and 6' below ground line.
 Size of pole, 7", 6" and 5"; 18" swedged joints.
 Fixtures and bases, however, can be furnished to fit any size railway pole.
 See detail of lighting fixture, page 38.



Detail View of Lighting Fixture, Design 10015,
 showing hinged arms and top raised to facilitate wiring.

- | | |
|--|---|
| <p>1 — Split center fitting.</p> <p>2 — Openings for wires, arranged to prevent water entering center.</p> <p>3 — Bolts clamping split center together.</p> <p>4 — Set screws for leveling arms.</p> <p>5 — Bolt for attaching arm to top of center, permitting arm to be raised for ease in wiring.</p> | <p>6 — Upper half of split center having water-proof joints.</p> <p>7 — $\frac{1}{2}$" pipe nipple.</p> <p>8 — Globe holder or fitter to take 12 x 6" globe.</p> <p>9 — Opening in lighting arm for wires.</p> |
|--|---|



Detail View of Lighting Fixture, Design 10036.

- 1 — Split center fitting for supporting lighting arms.
- 2 — Opening in center fitting to set opposite holes drilled in pole so wires may be brought out to lighting arms.
- 3 — Bolt for clamping two halves of split center fitting together.
- 4 — Set screw for leveling arms.

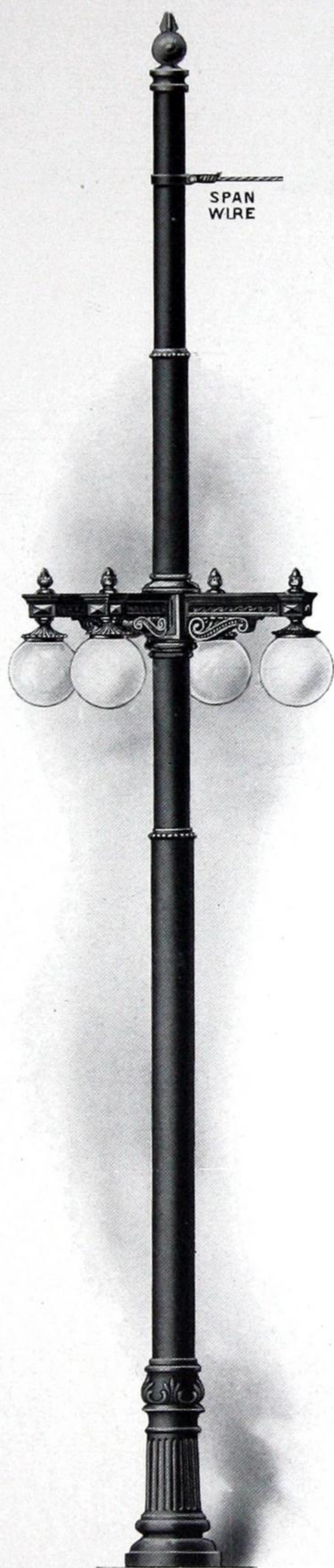
- 5 — Holding lug cast on arm to engage center fitting, permitting arms to be raised for ease in wiring.
- 6 — Watertight cover plate.
- 7 — Set screw.
- 8 — Globe holder to take 12 x 6" globe.
- 9 — Street railway pole.



Design 10036 — Two-Arm

Code Word — BLUEMETER

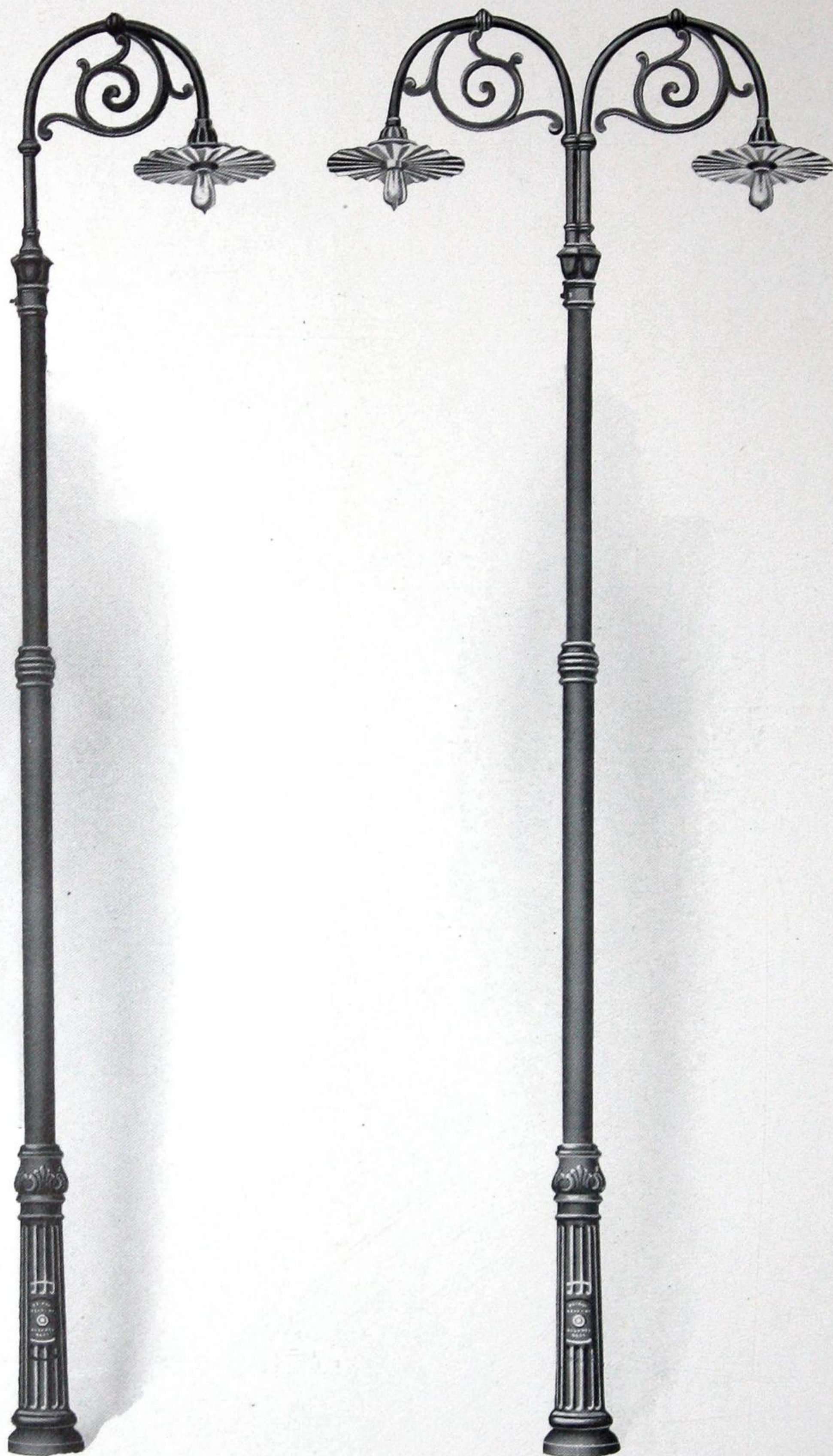
Combination railway and lighting pole.
 Standard pole, 30' over all; 24' above ground line and 6' below ground line.
 Size of pole, 7", 6" and 5"; 18" swedged joints.
 Fixtures and bases, however, can be furnished to fit any size railway pole.
 See page 35 for special top to be used with overhead wiring.
 See page 39 for large cut of lighting fixture.



Design 10036 — Four-Arm

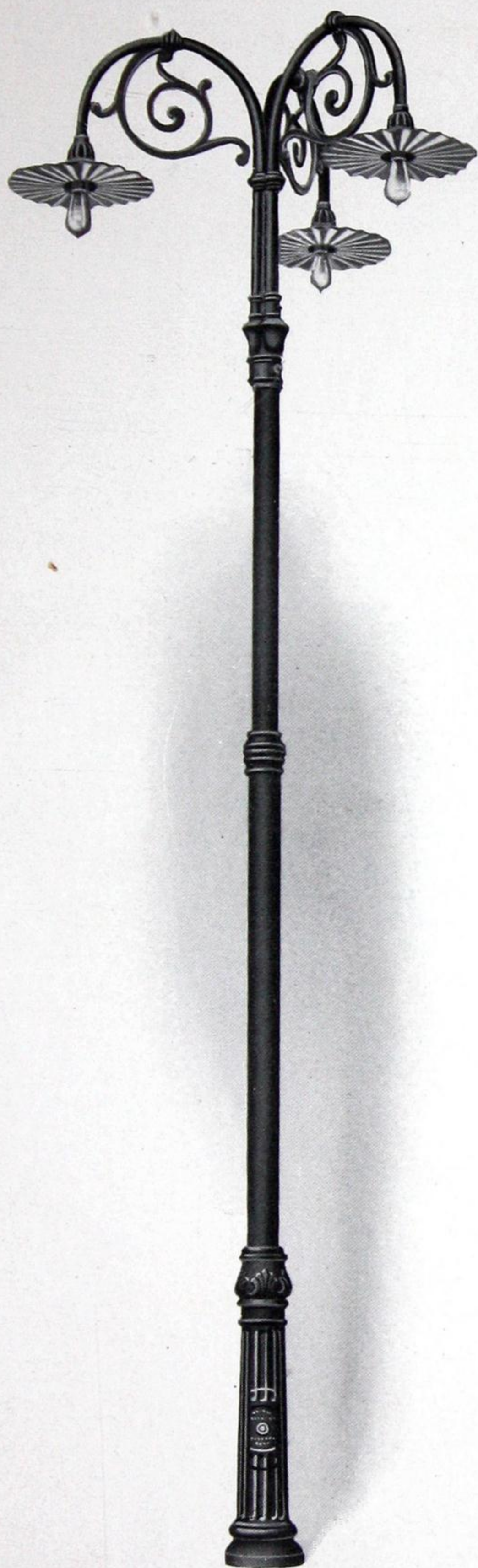
Code Word — BLUEMET

Combination railway and lighting pole.
 Standard pole, 30' over all ; 24' above ground line and 6' below ground line.
 Size of pole, 7", 6" and 5" ; 18" swedged joints.
 Fixtures and bases, however, can be furnished to fit any size railway pole.
 See page 35 for special top to be used with overhead wiring.
 See page 39 for large cut of lighting fixture.

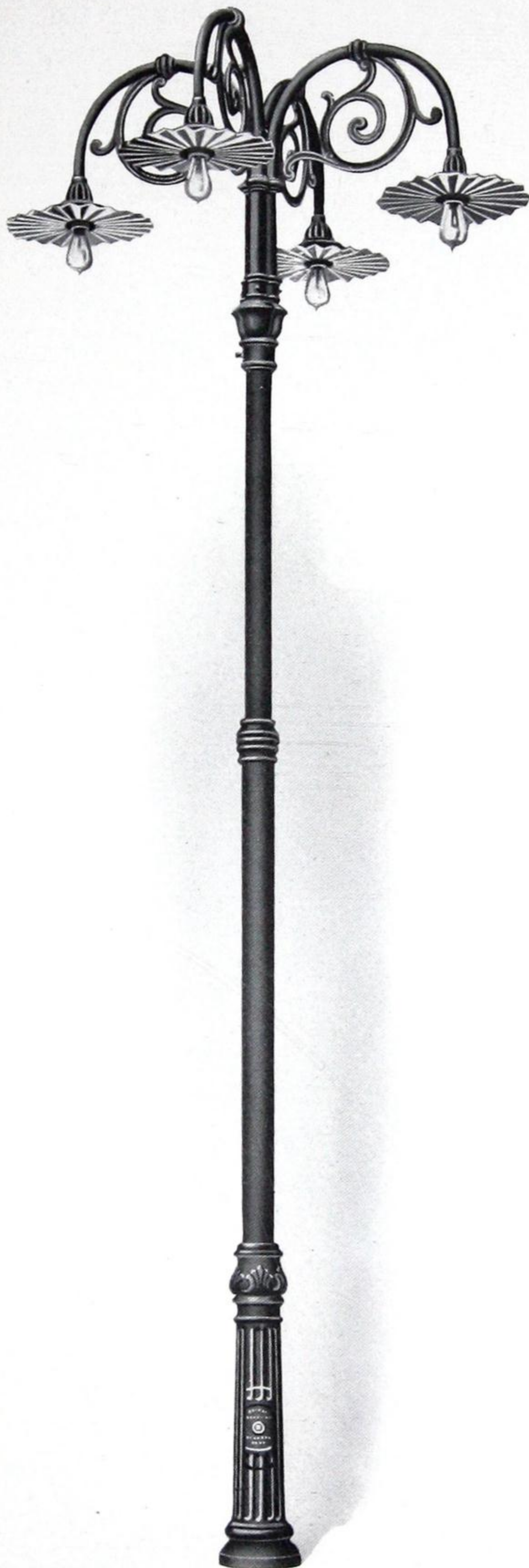


Design 10100 Code Word — BLUEFAX
 Height from ground line to lamp, 15'.
 Size of pole, 3" pipe.
 Crook, 1 1/4" pipe, 24" spread.
 Base, 3' 6" above ground line.
 Ground extension, 30".

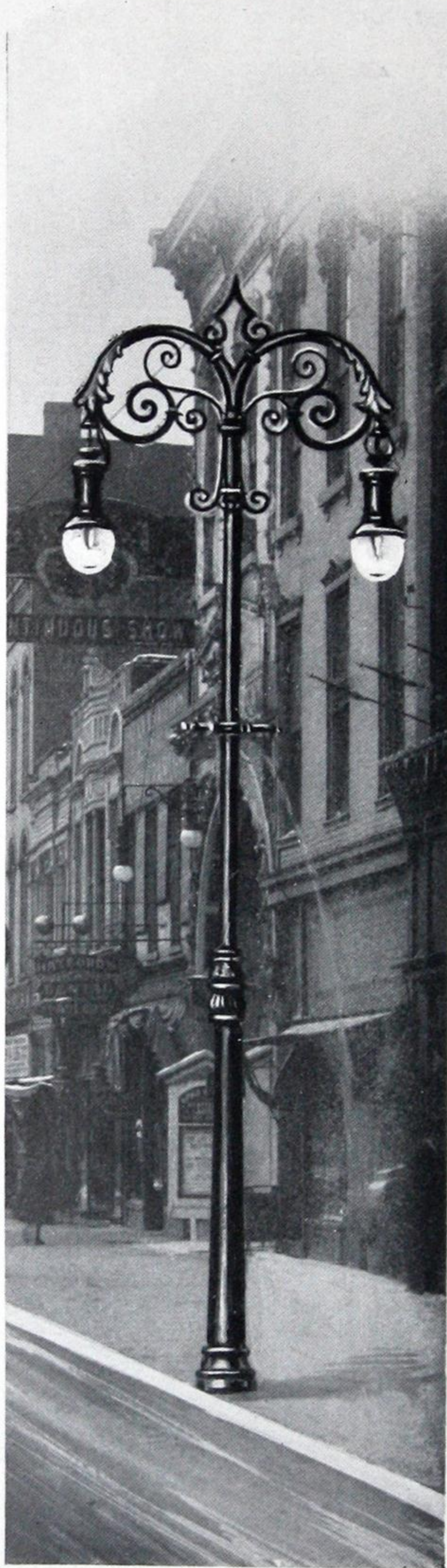
Design 10100-A Code Word — BLUEFAM
 Height from ground line to lamp, 15'.
 Size of pole, 3" pipe.
 Crooks, 1 1/4" pipe, 24" spread.
 Base, 3' 6" above ground line.
 Ground extension, 30".



Design 10100-B Code Word — BLUEFATE
 Height from ground line to lamp, 15'.
 Size of pole, 3" pipe.
 Crooks, 1 1/4" pipe, 24" spread.
 Base, 3' 6" above ground line.
 Ground extension, 30".



Design 10100-C Code Word — BLUEFAD
 Height from ground line to lamp, 15'.
 Size of pole, 3" pipe.
 Crooks, 1 1/4" pipe, 24" spread.
 Base, 3' 6" above ground line.
 Ground extension, 30".

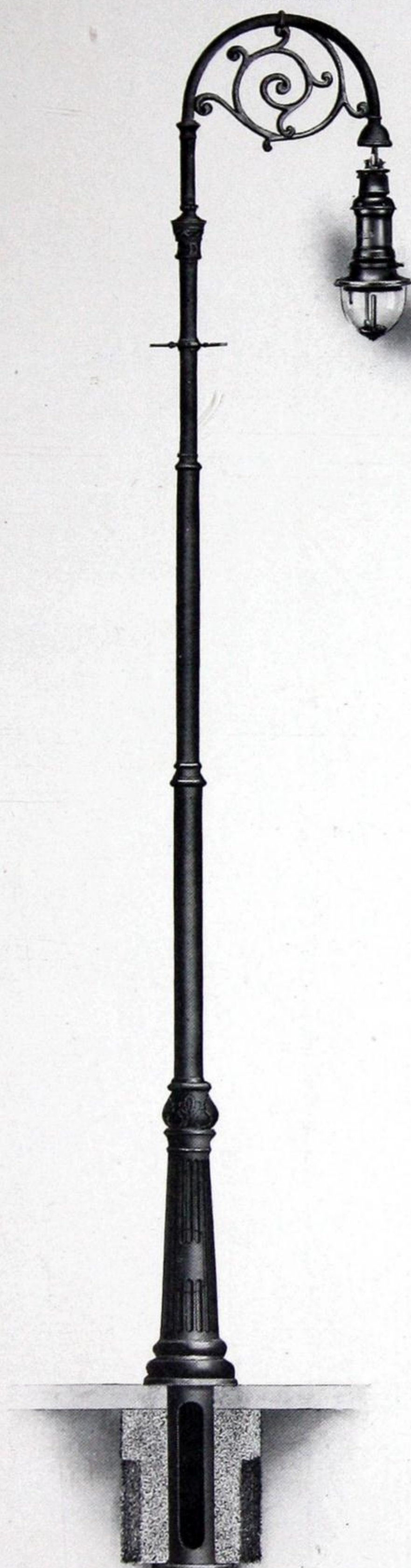


Design 10017

Height, ground line to lamp hook, 20'.
 Shaft, 4" standard pipe.
 Crooks, 2" standard pipe; 36" spread each crook.

Code Word — BLUEHED

Base, 9' 3" above ground line.
 Ground extension, 4' 6".
 Base door, 4"x 8".



Design 10018 Code Word — BLUEHIM
 Height, ground line to lamp hook, 20'.
 Shaft, 4", 3", 2½" or 5", 4", 3" pipe.
 Crook, 2" pipe; 36" spread.
 Base, 3' 6" above ground line.
 Ground extension, 30".



Design 10021 Code Word — BLUEJAK
 Height, ground line to lamp hook, 20'.
 Shaft, 4" and 3" pipe.
 Crook, 2" pipe; 24" spread.
 Base, 3' 6" above ground line.
 Ground extension, 30".



Design 10022

Height, ground line to lamp hook, 20'.
 Shaft, 4" and 3" pipe.

Code Word — BLUEJET

Crooks, 2" pipe; 24" spread of each crook.
 Base, 3' 6" above ground line.
 Ground extension, 30".



Design 10023

Height, ground line to lamp hook, 20'
 Shaft, 4" and 3" pipe.

Code Word — BLUEJIG

Crooks, 2" pipe; 24" spread of each crook.
 Base, 3' 6" above ground line.
 Ground extension, 30".

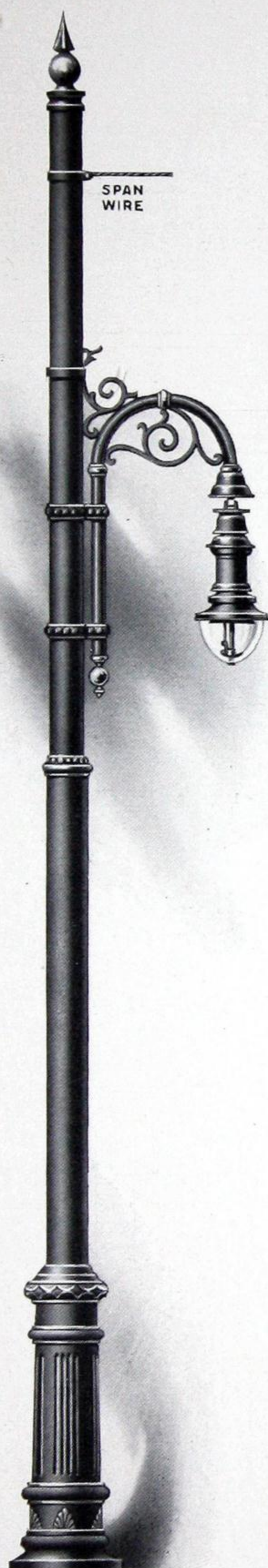


Design 10024

Height, ground line to lamp hook, 20'.
 Shaft, 4" and 3" pipe.

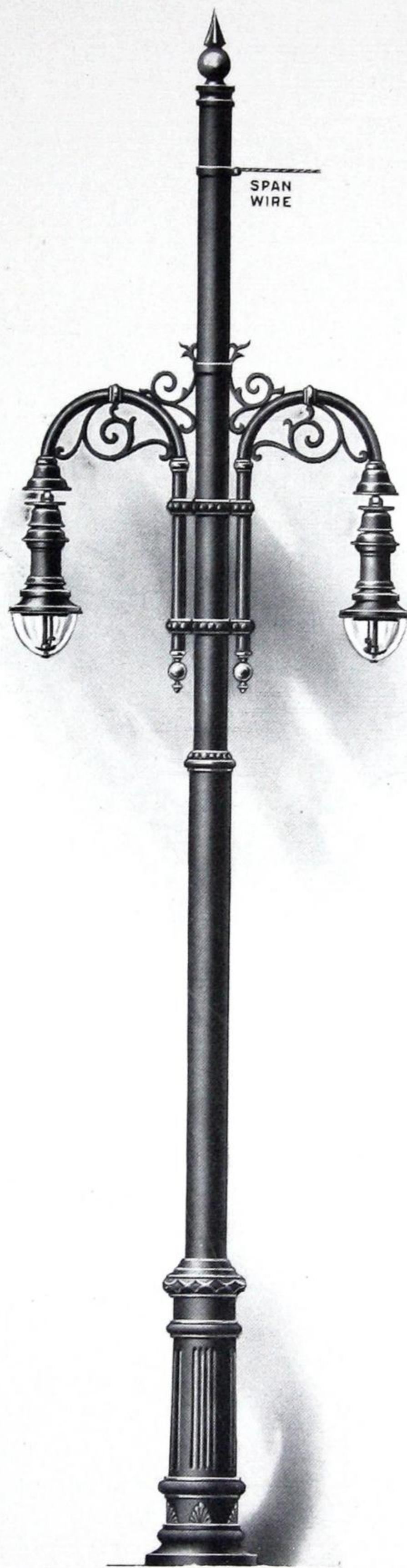
Code Word — BLUEJOT

Crooks, 2" pipe; 24" spread of each crook
 Base, 3' 6" above ground line.
 Ground extension, 30".

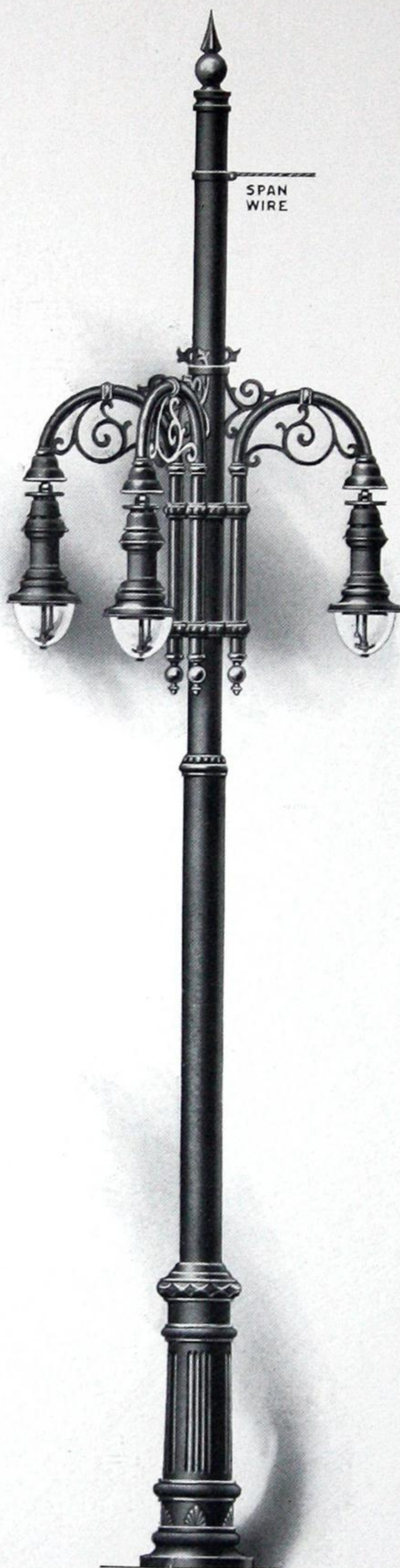


Design 10025 Code Word — BLUEJUG

Length of pole, 24' above ground line, 6' below ground line.
 Size of pole, 7" pipe, 21'; 6" pipe, 10' 6"; 18" swedged joints.
 Crook, 2" pipe, 36" spread.
 Lamp fixtures can be furnished for any size railway pole.



Design 10026 Code Word — BLUEKAT



Design 10027

Code Word — BLUEKEN

Length of pole, 24' above ground line, 6' below ground line.
 Size of pole, 7" pipe, 21'; 6" pipe, 10' 6"; 18" swedged joints.
 Crooks, 2" pipe, 36" spread.
 Lamp fixtures can be furnished for any size railway pole.



Design 10028

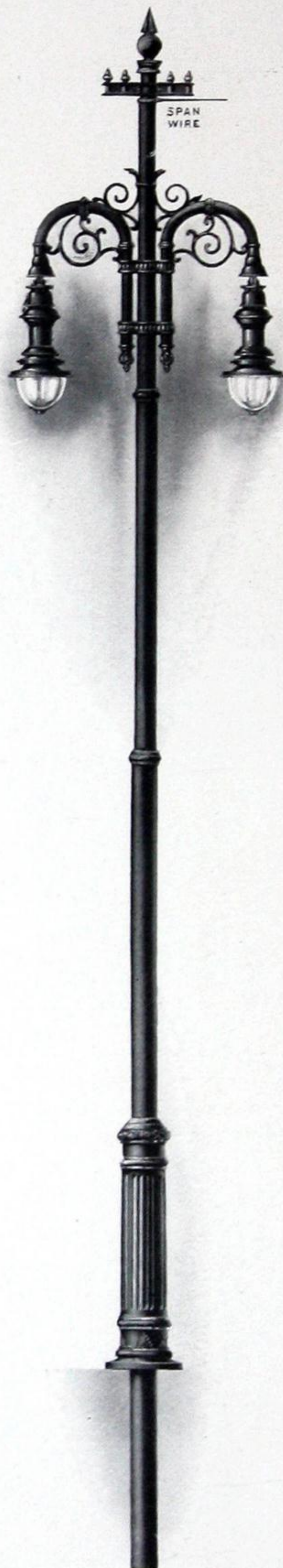
Code Word — BLUEKIT

Length of pole, 24' above ground line, 6' below ground line.
 Size of pole, 7" pipe, 21'; 6" pipe, 10' 6"; 18" swedged joints.
 Crooks, 2" pipe, 36" spread.
 Lamp fixtures can be furnished for any size railway pole.



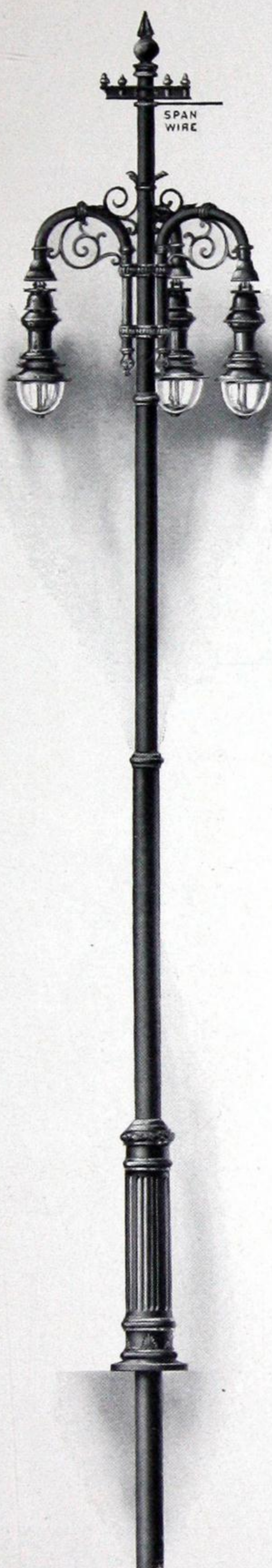
Design 10047 Code Word — BLUEPIP

Length of pole, 30'.
 Size of pole, 7", 6" and 5" sections; 18" swedged joints.



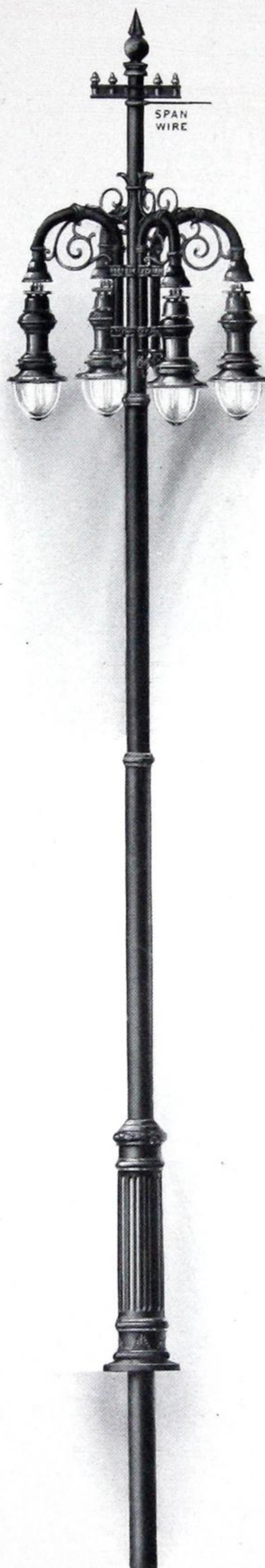
Design 10048 Code Word — BLUEPOT

Crook, 2" pipe, 24" spread.

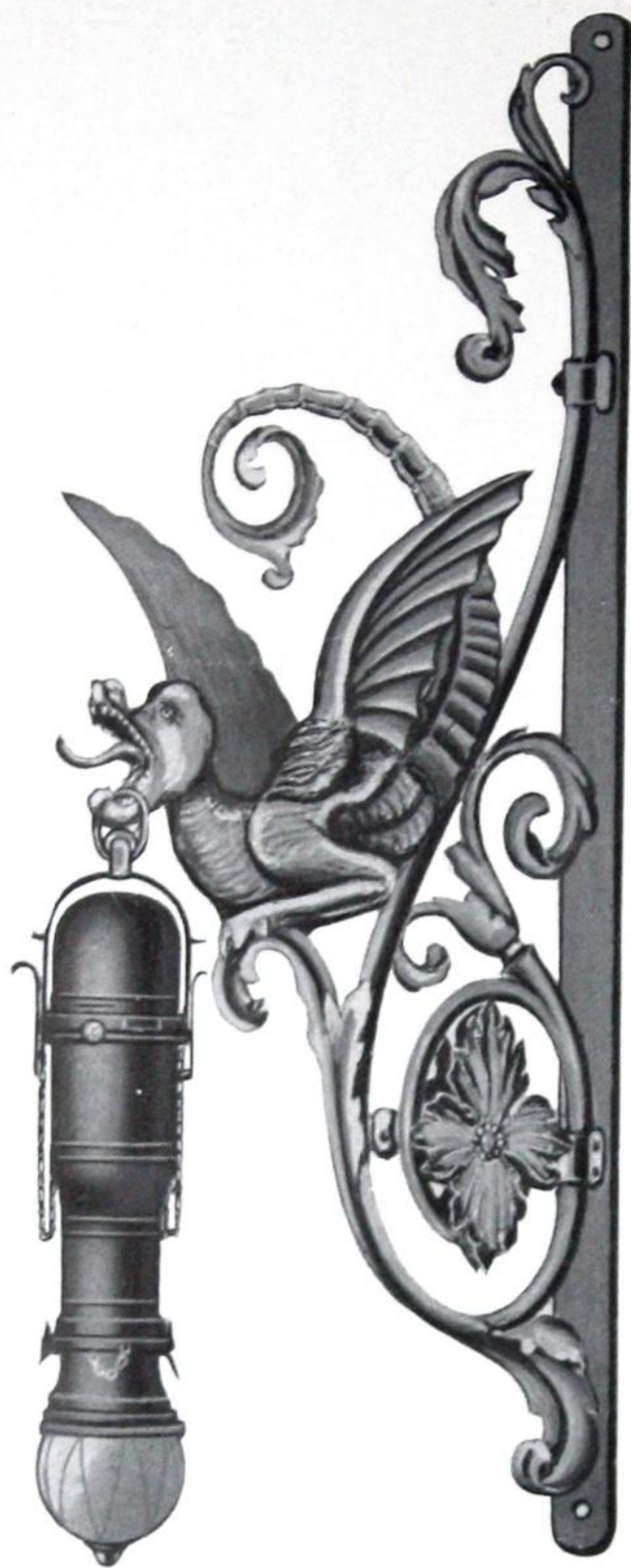


Design 10049 Code Word — BLUEPUN

Length of pole, 30'. Crooks, 2" pipe, 24" spread.
 Size of pole, 7", 6" and 5" sections; 18" swedged joints.



Design 10050 Code Word — BLUEQUAT



Design 10144
 Code Word — OBMANN
 Dragon Bracket for Flaming Arc Lamp.

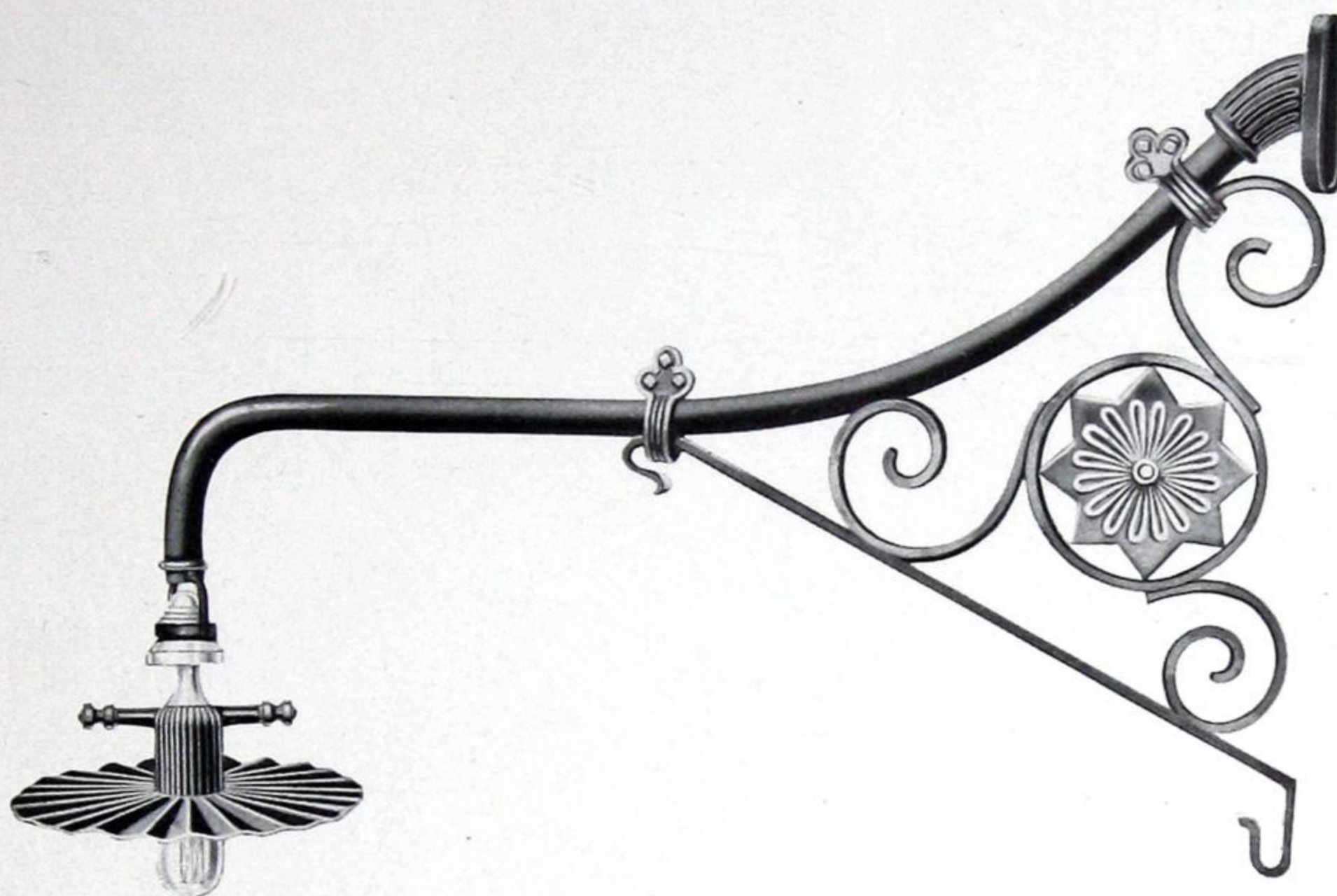


Design 10145
 Code Word — OBMOTI
 Dragon Bracket for Mazda Lamps.

Ornamental Brackets for Series and Multiple Lighting Circuits

Standard length, 4'.

$1\frac{1}{4}$ " pipe.



Design 10051

Code Word — BLUEQUEN

Bracket for high-tension exterior wiring.
20" Radial Wave Reflector.



Design 10052

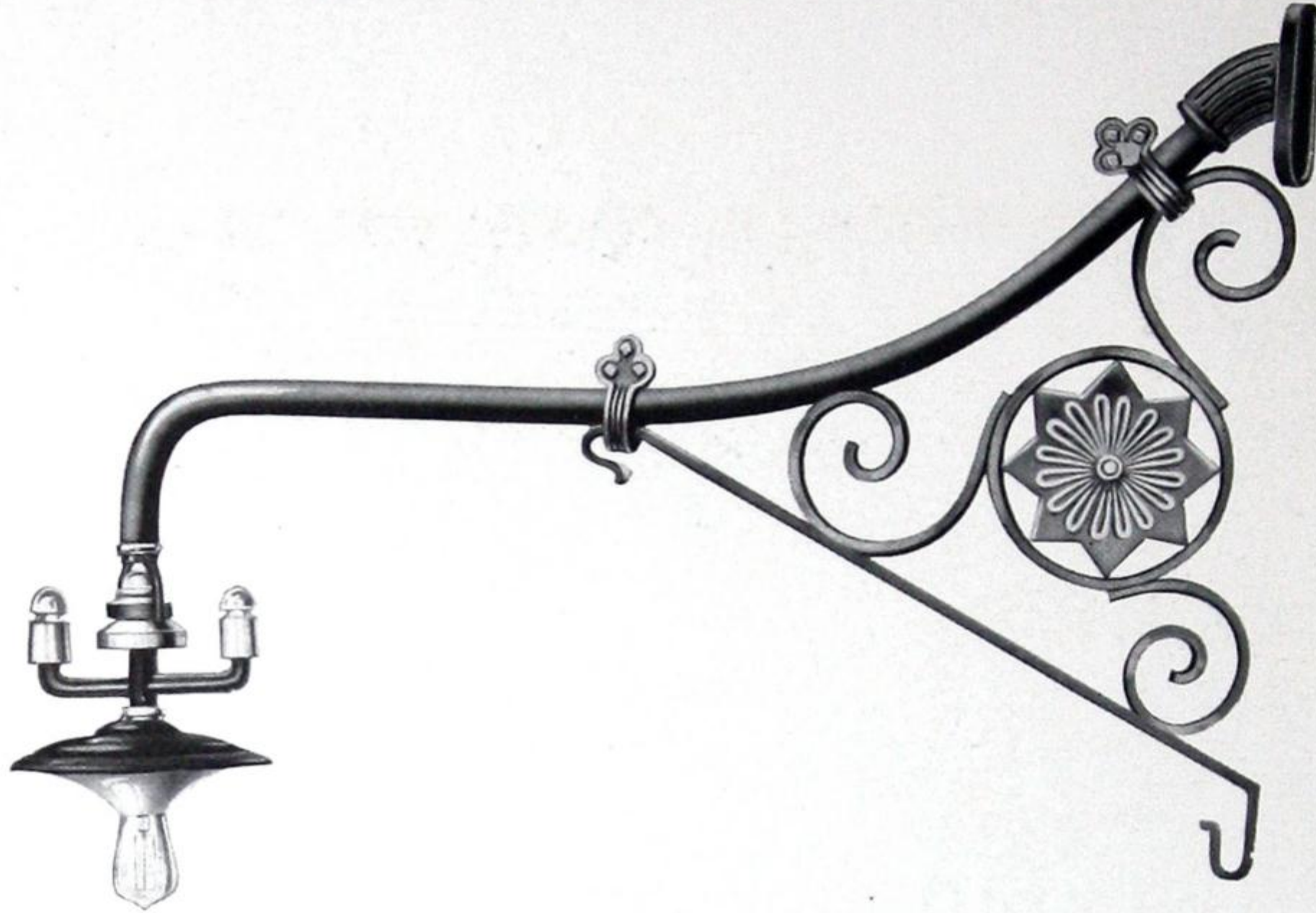
Code Word — BLUEQUIT

Bracket for high-tension interior wiring.
20" Radial Wave Reflector.

Ornamental Brackets for Series and Multiple Lighting Circuits

Standard length, 4'.

1 1/4" pipe.



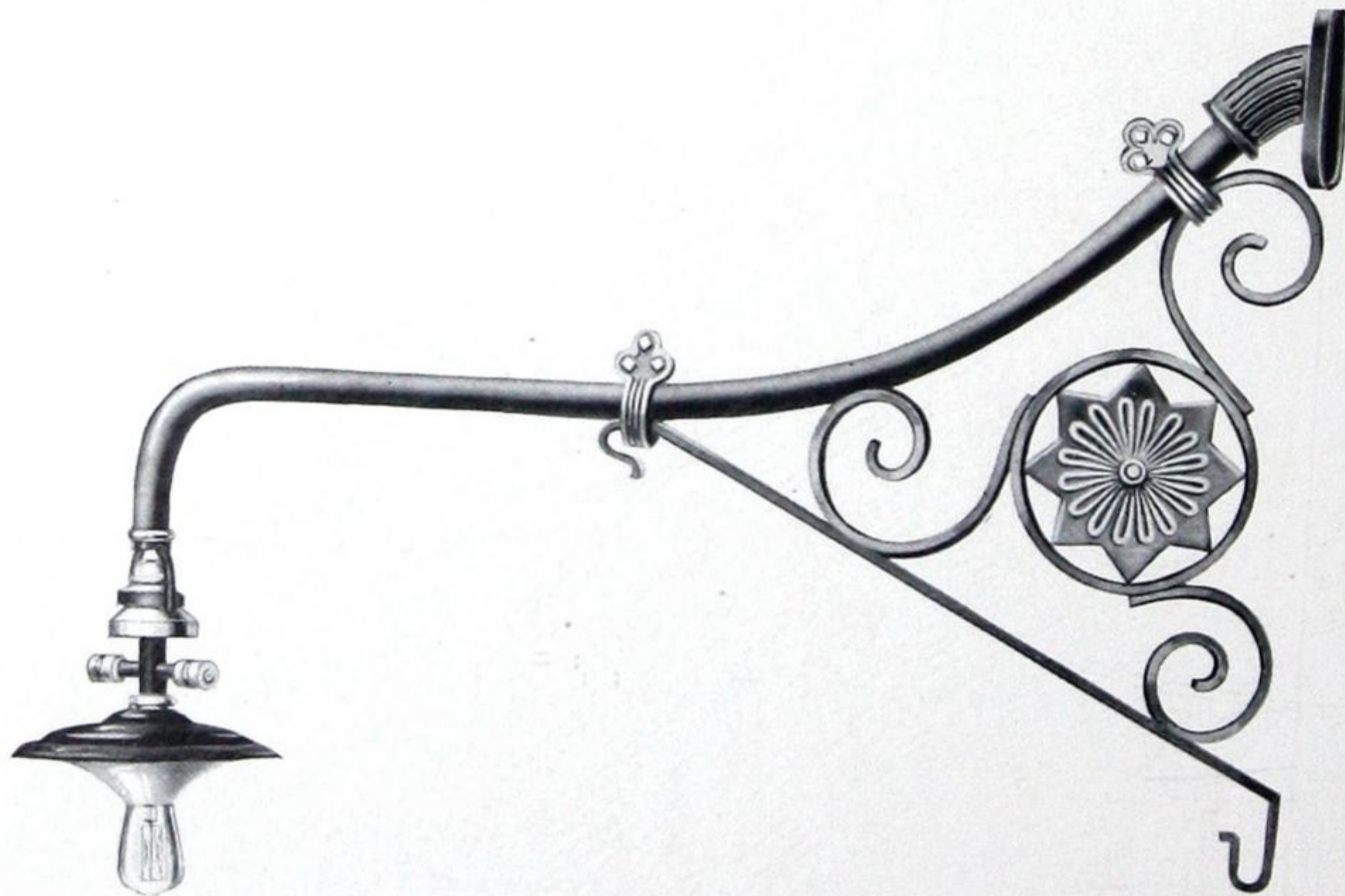
Design 10053

Code Word — BLUEQUOIN

Bracket for high-tension interior wiring.

14" enameled steel hood and reflector.

Porcelain insulators.



Design 10054

Code Word — BLUERAT

Same as Design 10053, but furnished with different style of insulator arm.

Ornamental Brackets for Series and Multiple Lighting Circuits

Standard length, 4'.

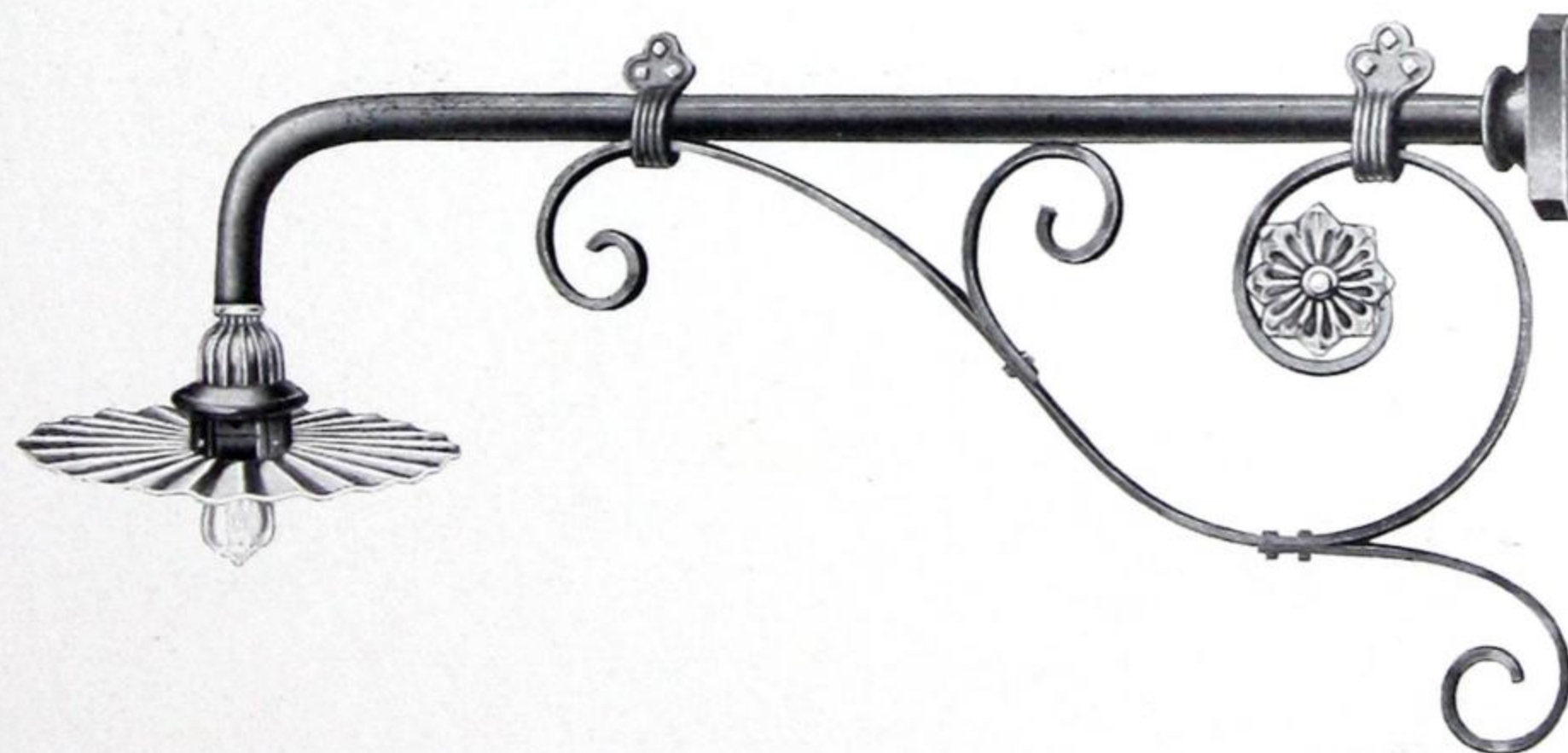
$1\frac{1}{4}$ " pipe.



Design 10055

Code Word — BLUEREN

Bracket for high-tension exterior wiring.
20" Radial Wave Reflector.



Design 10056

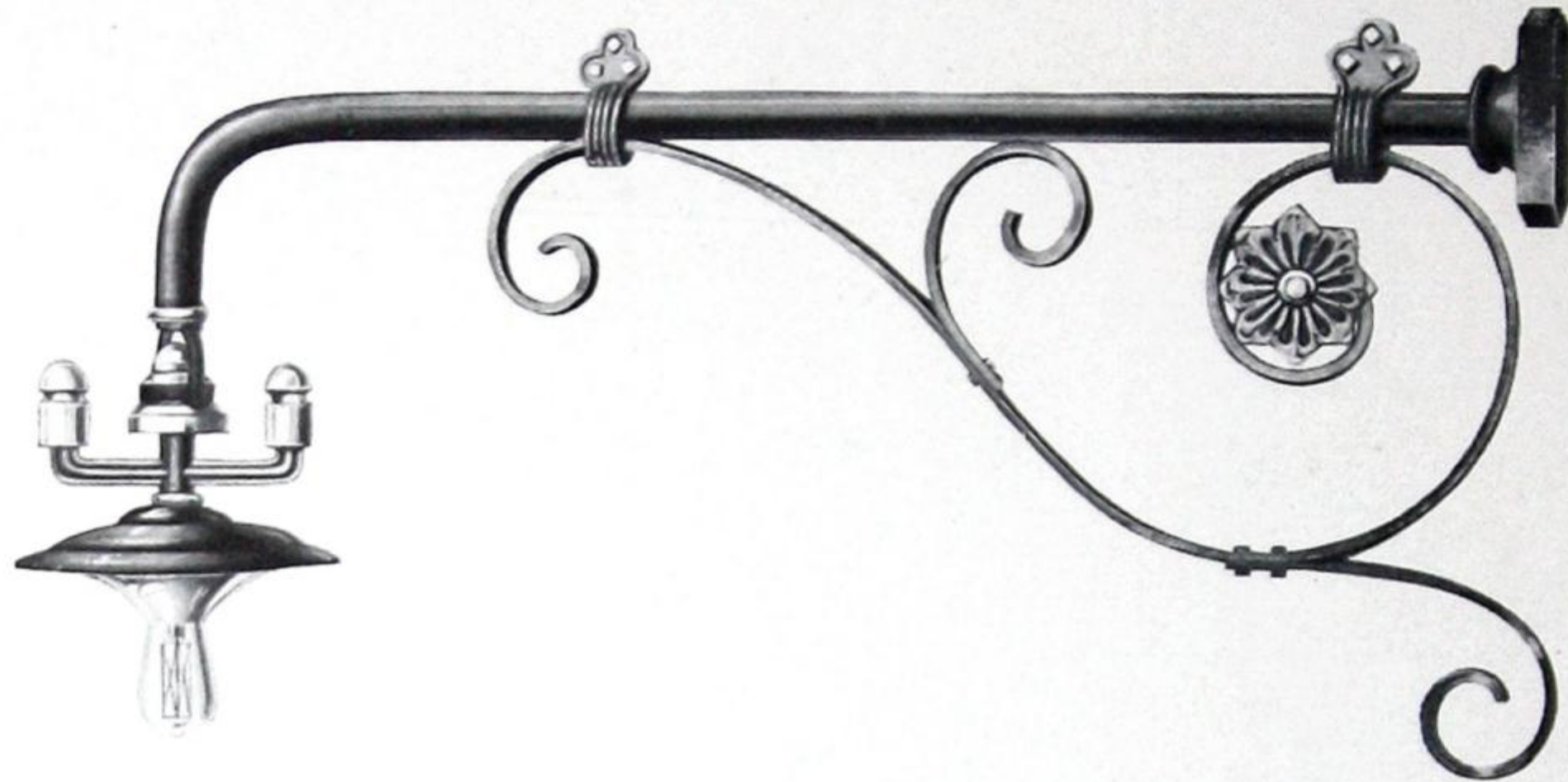
Code Word — BLUERID

Bracket for high-tension interior wiring.
20" Radial Wave Reflector.

Ornamental Brackets for Series and Multiple Lighting Circuits

Standard length, 4'.

1 1/4" pipe.



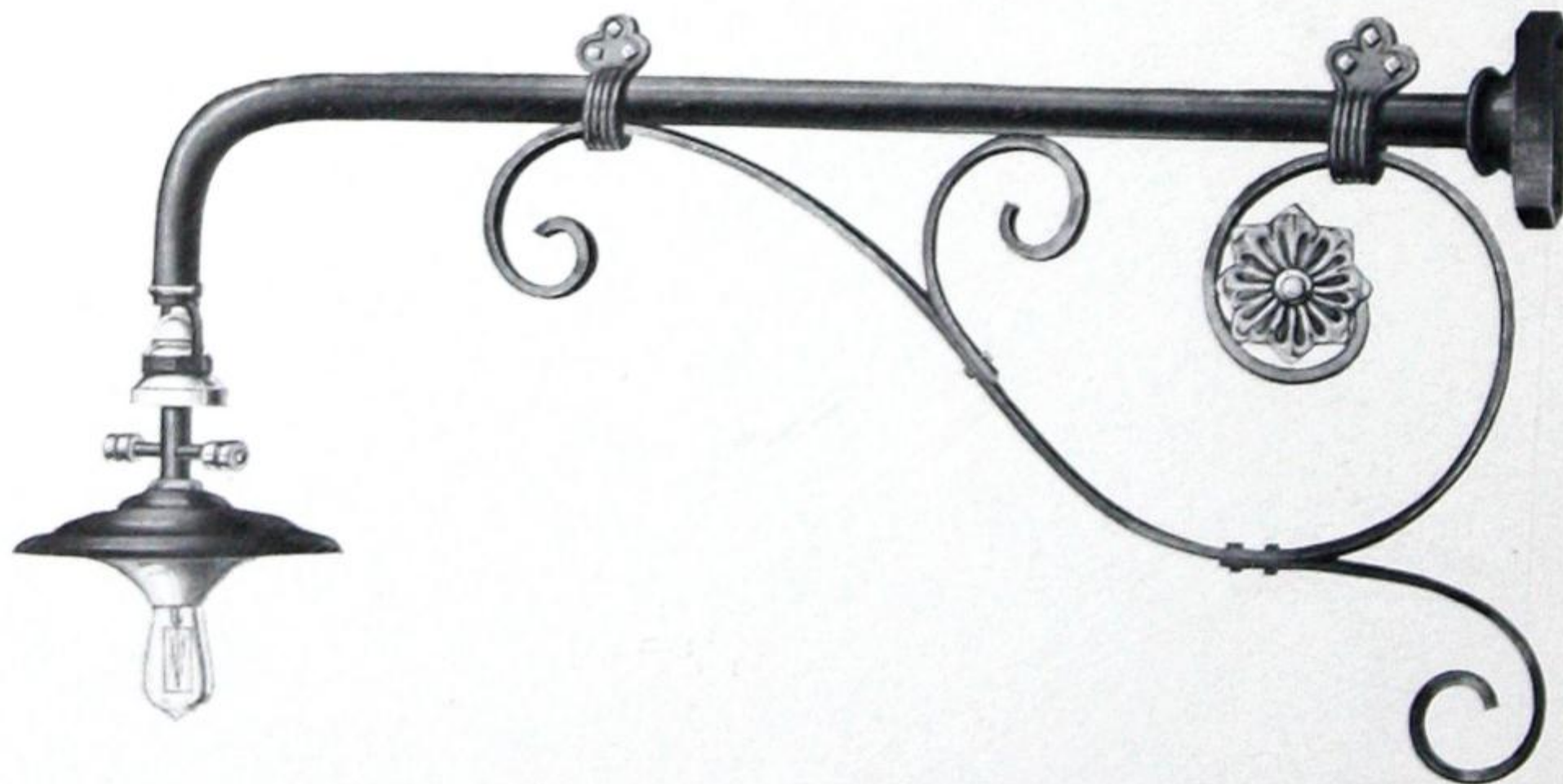
Design 10057

Code Word — BLUEROT

Bracket for high-tension exterior wiring.

14" enameled steel hood and reflector.

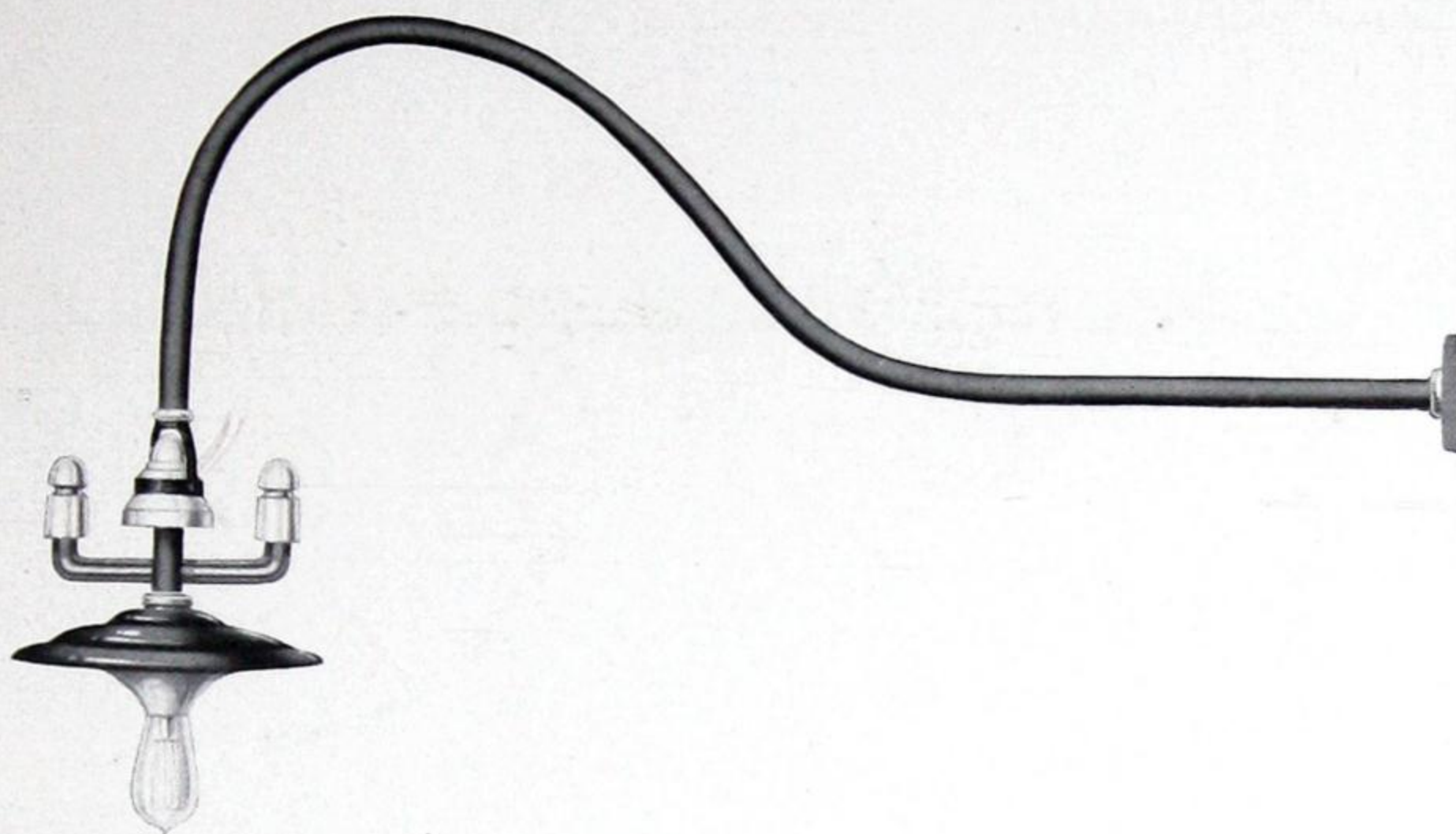
Porcelain insulators.



Design 10058

Code Word — BLUERUT

Same as Design 10057, but furnished with different style of insulator arm.



Design 10059

Code Word — BLUESAC

Goose-neck bracket, adapted for high-tension exterior wiring.

$\frac{3}{4}$ " pipe. Standard length, 4'.

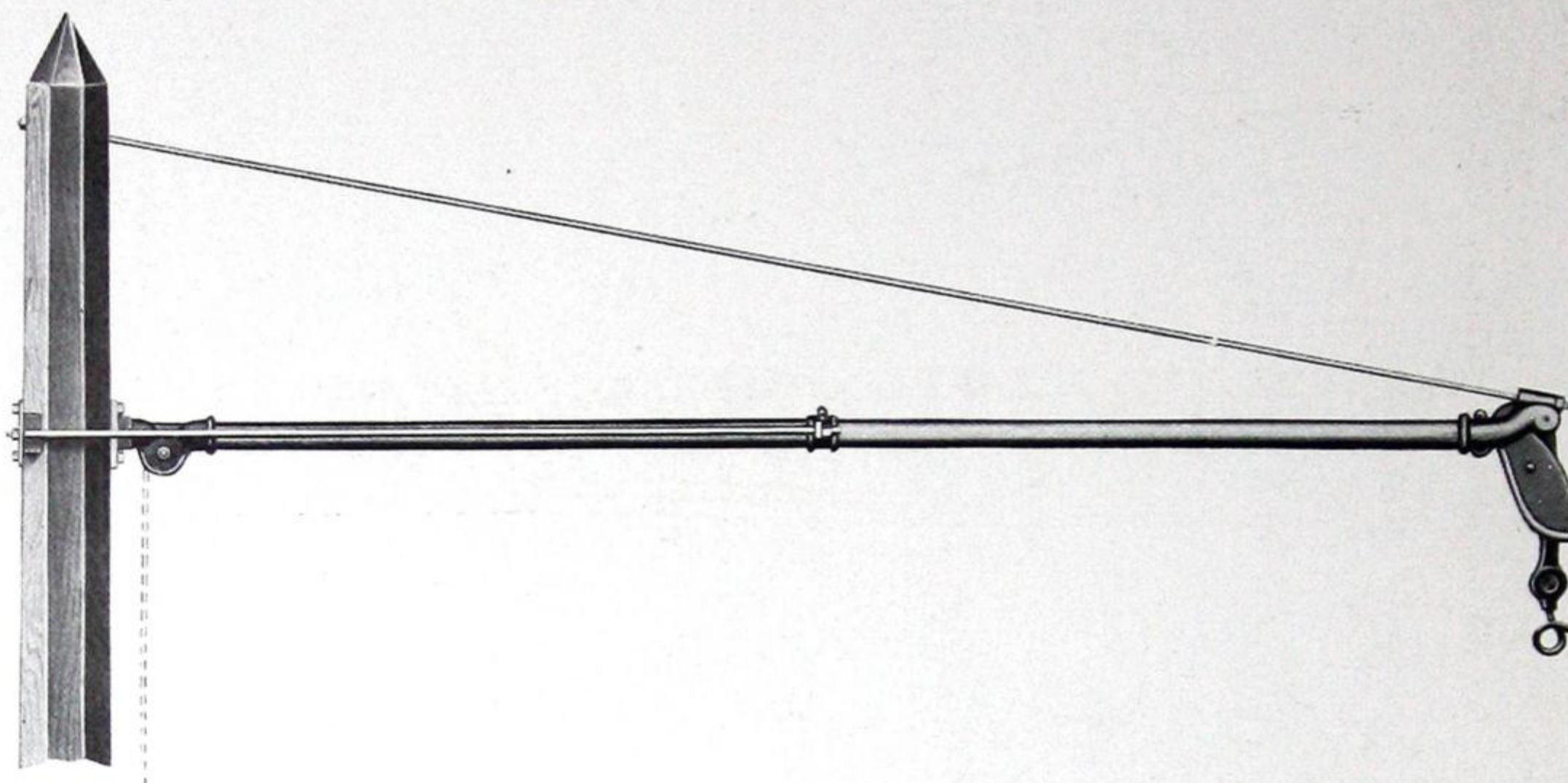
Brackets can be furnished complete with 14" enameled steel hood and reflector, or radial wave reflector.



Design 10060

Code Word — BLUESET

Same as Design 10059, but furnished with different style of insulator arm.



Design 10061

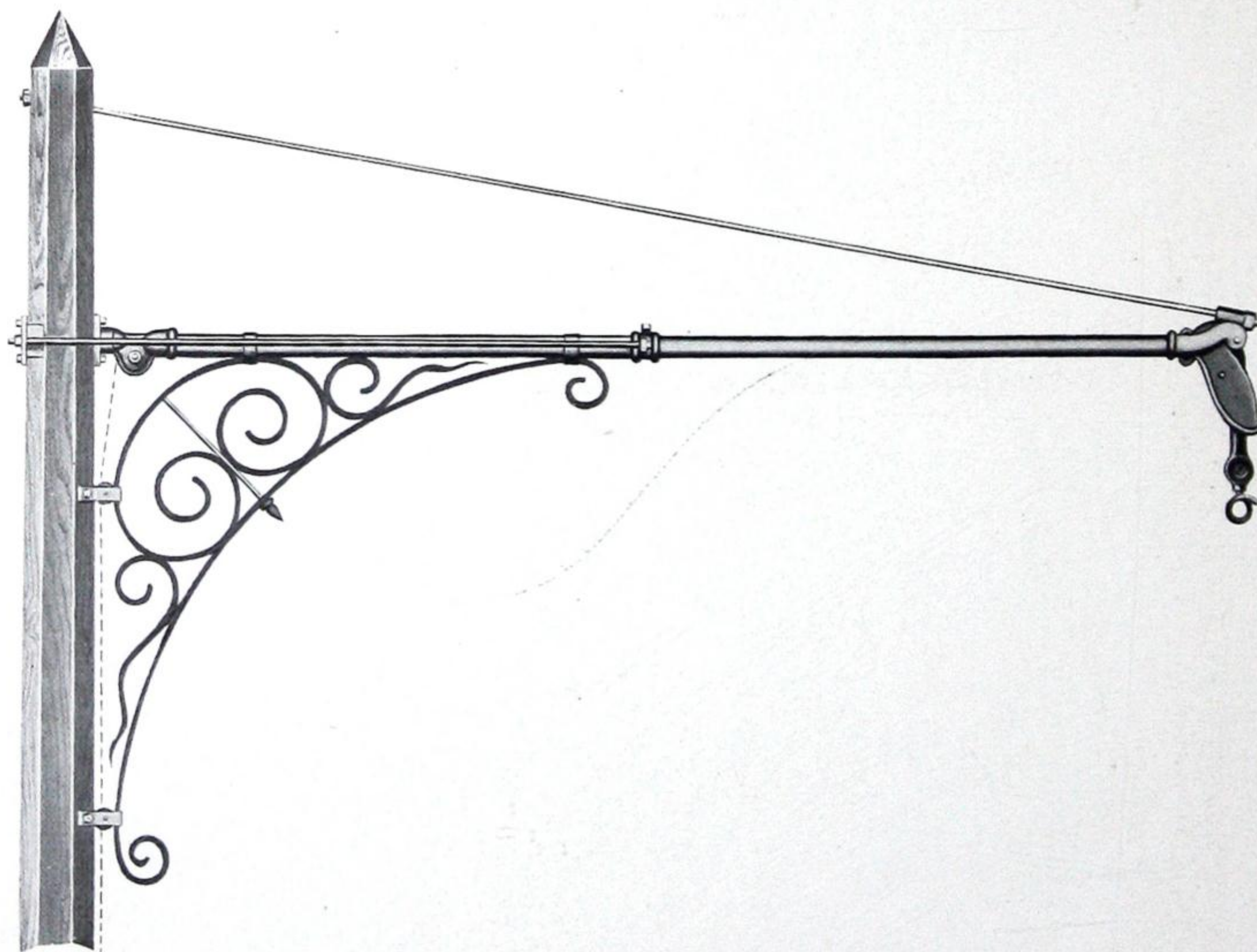
Code Word — BLUESIN

Plain mast arm for attachment to wooden poles; lamp-supporting pulley on end.

All mast arms provided with wind brace rods.

State length of arms when ordering.

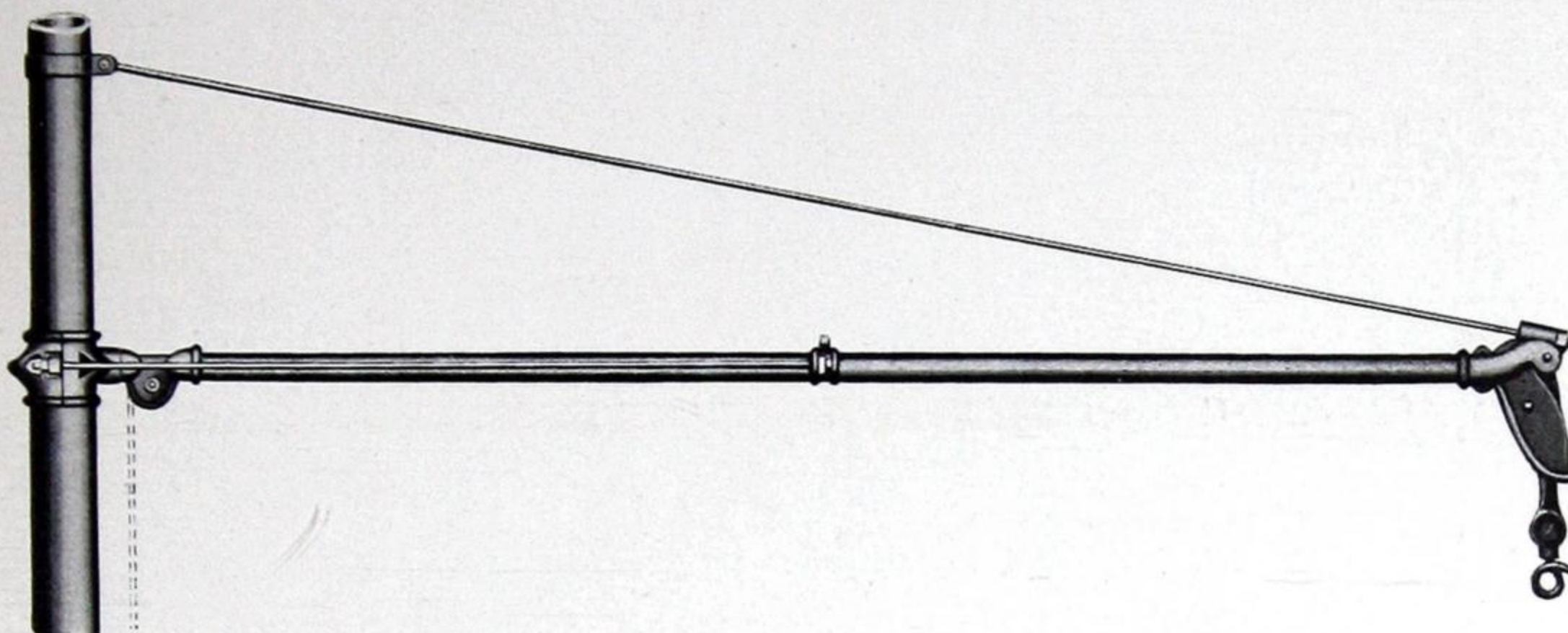
Size pipe, 1½".



Design 10062

Code Word — BLUESON

Same as Design 10061, but furnished with ornamental scroll.



Design 10063

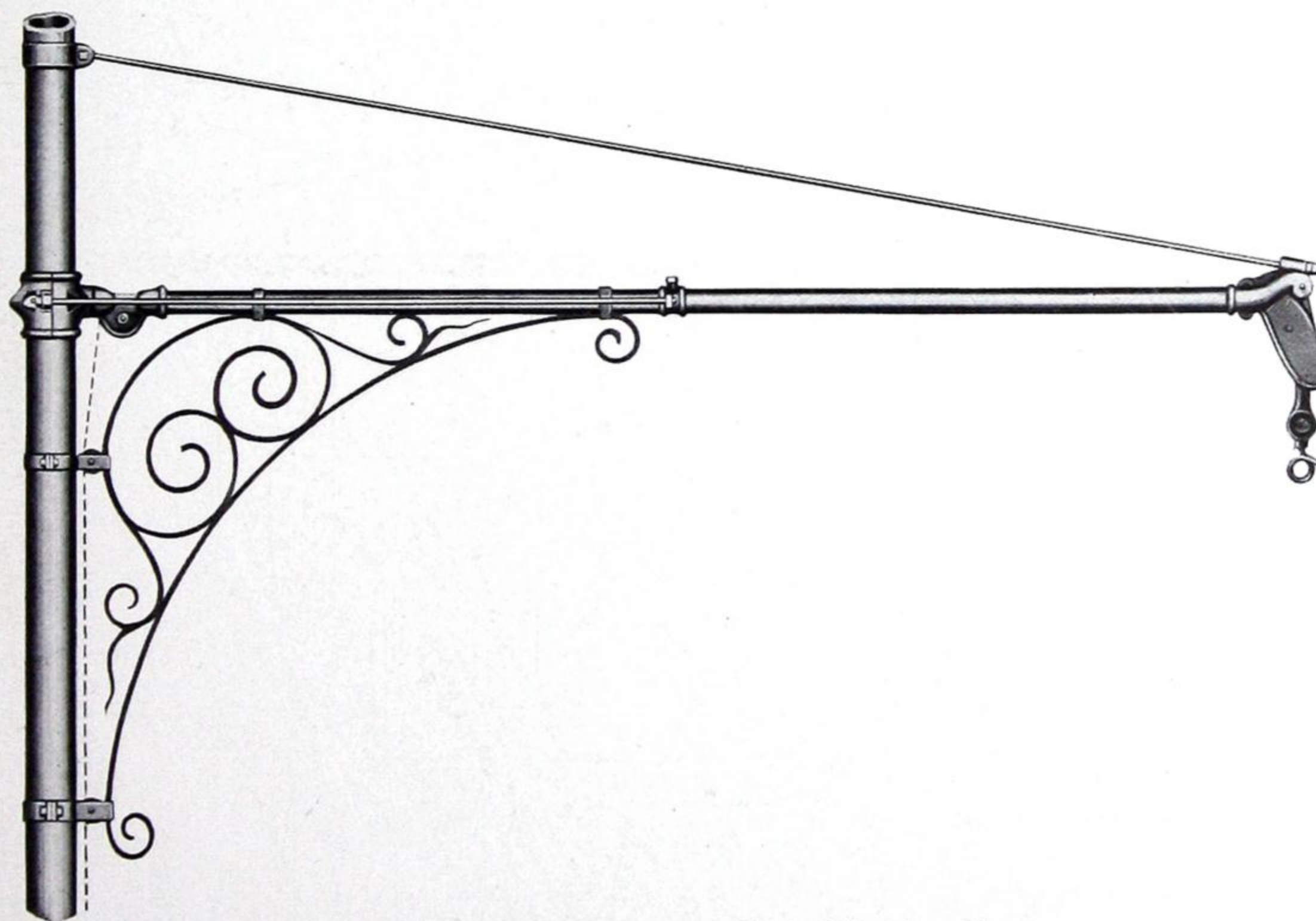
Code Word — BLUESUM

Plain mast arm for attachment to iron poles; lamp-supporting pulley on end.

All mast arms provided with wind brace rods.

State length of arm and size of poles when ordering.

Size pipe, 1½".



Design 10064

Code Word — BLUETAN

Same as Design 10063, but furnished with ornamental scroll.

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